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SALARIES 1980

ANALYSIS OF THE AMERICAN CHEMICAL SOCIETY'S 1980 SURVEY OF SALARIES AND EMPLOYMENT

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INTRODUCTION AND ACKNOWLEDGMENT

This report presents detailed results of the 1980 Comprehensive Salary and Employment Status Survey. Such a survey is conducted in March of every year by the ACS's Office of Manpower Studies. A summary of the 1980 findings was published in the June 30, 1980 issue of Chemical and Engineering News.

General oversight of the survey and its analysis was provided by the ACS Council Committee on Economic Status, which is grateful to each of the more than 16,000 ACS members who completed and returned survey questionnaires. Dr. Samuel M. Gerber is 1980 Chairman of the Committee.

This report was prepared by John Robert Jones, Harry Foxwell, and Joanna Chin of the ACS Office of Manpower Studies.

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TECHNICAL NOTES

The target population of the 1980 Comprehensive Salary and Employment Status Survey is those ACS members who have U.S. mailing addresses, are not older than 65, and have neither student nor emeritus status.

On January 31, 1980 the ACS membership totalled 113,702, of which 82,483 were eligible for inclusion in the sample. A systematic sample of 20,000 men was selected from the target population. All 8,445 of the women in the target population were included in the sample.

The survey questionnaires were mailed to this sample of 28,445 members by bulk mail during the week of February 17-23. By May 9, the cut-off date, 16,057 (56.4%) usable questionnaires had been returned. This year's survey was the largest since 1972, the last year the ACS directly surveyed half of its working membership.

The survey data were processed by the Alpha-Micro computer at the ACS Office of Manpower Studies. Computer programs for the processing were written by Harry Foxwell, Bob Jones, and Joanna Chin.

Women

The tables in this report which disregard the respondent's sex were generated from a sample which included all male respondents and approximately 27 percent of the female respondents. This was done to obtain correct weighting and comparability with previous years. A special report, analyzing the responses of all of the women, will be published at a later date.

Definitions

For the purposes of the survey analysis only, the following definitions were used:

Chemist: a respondent who indicated a work specialty of chemistry or biochemistry (categories 2 through 12 of question H on the questionnaire).

Chemical Engineer: a respondent who indicated a work specialty of chemical engineering (category 1 of question H on the questionnaire).

Unemployed: a respondent who is unemployed and seeking employment (category 3 of question B on the questionnaire).

This report presents the respondents' principal annual salaries as of March 1, 1980. Respondents employed in academic institutions are assumed to have reported their basic salary for the academic year, rather than the calendar year. The respondent's age is given as of March 1, 1980. A respondent's state and geographic region refer to place of residence, rather than place of employment.

Years Since Bachelor's Degree

Past surveys reported salaries tabulated by the r spondents' "years of professional experience". This year, salaries are tabulated by "years since bachelor's degree". There are several important reasons for this change.

First, a respondent's estimate of his/her years of professional experience is highly subjective. Respondents who have been in and out of the work force several times measure their experience differently from those who have relatively continuous employment. Tabulating salaries by years since bachelor's degree replaces the subjective experience measure with an objective time measure.

Second, using years since bachelor's degree allows comparison of respondents who are of essentially the same age cohort but with different degree levels.

Finally, the results of the ACS survey may now be compared with those obtained by other surveys of chemists, such as those conducted by Battelle Columbus Laboratories and by the American Association of Engineering Societies. These surveys also report salaries tabulated by years since bachelor's degree, rather than by professional experience.

Proportions

The proportion of people falling within a certain cell in one of the tables is a sample proportion. The sample proportion is used to make statements about the corresponding population proportion, but, of course, the sample proportion generally is not exactly equal to the population proportion. Another useful type of estimate is the confidence interval. Such an

interval estimate is illustrated in the following statement: "We assert with 95% confidence that the population proportion is between 0.04 and 0.06." A simple but adequate formula for a confidence interval centered on the sample proportion is

$$\hat{p} = p \pm z\,[p(1-p)/n]^{\frac{1}{2}}$$

where
- $\hat{p}$ = the population proportion
- p = the sample proportion
- z = a function of the level of confidence and is found in a table of the standard normal distribution
- n = the sample size

Inspection of the formula shows that the width of the confidence interval is inversely proportional to the square root of the sample size, so that proportions derived from small samples are not so precise as ones drawn from large samples. Also, if non-respondents differ from respondents with regard to the characteristic under consideration, the formula will overstate precision because the formula is based on an assumption of 100% response.

Suppose a confidence interval is required for a group containing 1900 sample members. If the sample contains 95 persons with a specific characteristic, then the numbers that go into the formula are $p = .95/1900 = 0.05$ and $n = 1900$. For a 95% confidence interval, z is about 2. Putting these numbers into the formula above we have

$$\begin{aligned}\hat{p} &= p \pm z[p(1-p)/n]^{\frac{1}{2}} \\ &= 0.05 \pm 2[0.05((0.95)/1900]^{\frac{1}{2}} \\ &= 0.05 \pm 0.01\end{aligned}$$

Thus, a 95% confidence interval for $\hat{p}$ is from 4.0% to 6.0% Although we cannot say that the population proportion is exactly 5.0%, we can be confident that it is between 4.0% and 6.0%. The 95% level of confidence means roughly that if this procedure were followed a large number of times using different samples of the same size, the population proportion would be within the calculated interval about 95% of the time.

Small Cell Counts

If the number of responses in a cell of a salary table is small, then the sample salary statistics for that cell may not accurately estimate the corresponding population salary statistics. To avoid misinterpretation of the information presented in a table, some statistics are not printed (in fact, some cannot be computed) if the cell count falls below a certain size. The table below indicates the minimum cell size required for a given statistic to be reported in a salary table:

Salary Statistic	Minimum Cell Size	Exclusion Code
75th percentile	25	-a-
Median	15	-b- or ---
25th percentile	25	-c-
Mean	1	-d- or ---
Standard Deviation	2	-e- or ---

Percentiles

The inaccurate percentile algorithm used in past survey reports has been replaced by one which models the correct formula for percentiles:

If a sample of size n is arranged in ascending order of magnitude, the jth percentile P_j , j = 1,2 ... or 99 is given by the (j(n+1)/100)th value. If (j(n+1)/100) is not an integer, then the jth percentile is a weighted average of the two values whose ranks are closest to (j(n+1)/100):

$$P_j = \frac{j}{100} S_k + \left(1 - \frac{j}{100}\right) S_{k+1}$$

where k is the largest integer not greater than (j(n+1)/100) and S_k is the kth sample value.

Discrepancies Among Tables

Some pairs of tables contain totals that should be identical but are not. For example, two tables that present information about PhD respondents should show the same total number of PhDs. They might, however, show different totals. To illustrate, if one table groups the PhDs according to specialty and the other goups them according to geographic region, the totals will differ unless the number who did not indicate their specialty is the same as the number who did not indicate their geographic region.

Comparing Salaries

Often questions arise concerning B.S. chemists' salaries as compared with M.S. chemists', or chemists' salaries as compared with chemical engineers'. These and similar comparisons require caution.

Statistical tests should be performed to determine whether observed differences in salaries of various sample groups could be mere chance occurrences resulting from peculiarities of the samples. Whether a difference in salaries is "statistically significant" depends not only on the magnitude of the difference but also on the sample sizes and the magnitudes of the sample standard deviations.

References for statistical tests of significance may be found in Numerical and Statistical Techniques, by J.H. Pollard, Handbook of Tables for Probability and Statistics, published by the Chemical Rubber Company, and other similar texts.

GEOGRAPHIC REGIONS

PACIFIC

- Alaska
- California
- Hawaii
- Oregon
- Washington

MOUNTAIN

- Arizona
- Colorado
- Idaho
- Montana
- Nevada
- New Mexico
- Utah
- Wyoming

WEST NORTH CENTRAL

- Iowa
- Kansas
- Minnesota
- Missouri
- Nebraska
- North Dakota
- South Dakota

WEST SOUTH CENTRAL

- Arkansas
- Louisiana
- Oklahoma
- Texas

EAST NORTH CENTRAL

- Illionis
- Indiana
- Michigan
- Ohio
- Wisconsin

EAST SOUTH CENTRAL

- Alabama
- Kentucky
- Mississippi
- Tennessee

MIDDLE ATLANTIC

- New Jersey
- New York
- Pennsylvania

SOUTH ATLANTIC

- Delaware
- District of Columbia
- Florida
- Georgia
- Maryland
- North Carolina
- South Carolina
- Virginia
- West Virginia

NEW ENGLAND

- Connecticut
- Maine
- Massachusetts
- New Hampsire
- Rhode Island
- Vermont

Table-1.1.0

FULL-TIME EMPLOYED CHEMISTS BY HIGHEST DEGREE AND YEARS SINCE BS

YEARS SINCE BS

HIGHEST DEGREE	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	TOTAL	
Bachelors	18,500	18,850	23,650	28,000	33,000	34,950	38,000	37,550	43,500	41,950	32,000	-75th %-ile
	16,200	17,000	20,000	23,450	28,000	30,000	31,200	30,000	34,000	31,500	25,000	-Median
	13,200	14,500	17,050	20,000	23,000	25,000	26,550	25,000	27,000	25,400	18,700	-25th %-ile
	16,612	16,793	20,029	23,985	27,933	30,603	33,342	31,455	38,898	35,845	26,569	-Mean
	4,511	4,763	6,096	7,139	8,156	9,266	11,652	12,986	27,060	22,886	13,784	-Std Dev
	83	313	429	272	231	234	245	296	167	110	2,380	-Count
Masters	-a-	20,000	24,000	27,950	33,225	35,800	39,300	39,000	40,000	40,000	33,775	
	-b-	18,200	20,500	24,000	28,000	28,800	31,000	33,250	32,100	30,900	26,000	
	-c-	14,500	17,000	20,000	22,075	23,000	26,000	26,250	25,000	24,900	20,100	
	-d-	17,958	20,371	23,726	27,440	29,995	33,131	32,955	34,752	31,823	27,758	
	-e-	3,971	6,154	6,894	10,551	13,096	13,089	12,215	17,998	12,617	12,224	
	0	55	292	265	214	175	210	222	122	75	1,630	
Doctorate	-a-	-a-	28,000	32,000	38,000	40,000	44,500	48,000	49,000	50,100	40,000	
	-b-	-b-	25,500	27,000	30,500	32,400	36,000	38,000	40,000	40,000	31,200	
	-c-	-c-	20,700	21,500	24,000	25,200	28,800	29,850	30,000	30,000	25,000	
	-d-	8,100	23,613	26,907	31,310	33,392	37,145	38,954	41,449	42,478	33,349	
	-e-	-e-	7,108	8,394	12,907	12,834	14,582	15,374	20,796	21,218	14,935	
	0	1	403	922	1,007	791	707	566	426	285	5,108	
TOTAL												
All Cases	18,500	19,050	25,825	30,000	36,000	38,650	42,000	42,225	47,000	49,375	37,000	
	16,200	17,000	22,000	25,800	30,000	31,000	34,300	35,000	37,000	36,050	28,900	
	13,200	14,500	17,600	20,400	24,000	25,000	27,000	27,000	28,000	28,050	22,000	
	16,012	16,943	21,403	25,784	30,203	32,353	35,618	35,677	39,711	39,225	30,580	
	4,511	4,684	6,694	8,047	12,050	12,337	13,867	14,550	22,107	20,913	14,531	
	83	369	1,124	1,459	1,452	1,200	1,162	1,084	715	470	9,118	

Table-1.1.1

FULL-TIME EMPLOYED CHEMISTS BY TYPE OF EMPLOYER AND HIGHEST DEGREE

EMPLOYER TYPE	HIGHEST DEGREE Bachelors	Masters	Doctorate	TOTAL	
Pvt Industry	25,200	28,500	36,000	31,000	-Median
	27,519	30,177	38,220	33,140	-Mean
	14,139	12,382	15,181	15,151	-Std Dev
	1,883	1,136	2,746	5,765	-Count
Fed Govt	28,400	29,800	34,100	31,000	
	27,399	29,019	33,855	31,301	
	9,413	11,059	11,035	11,025	
	171	124	372	667	
Coll/Univ	13,500	19,450	25,000	24,000	
	15,660	19,744	26,478	25,641	
	6,817	6,422	11,595	11,429	
	57	170	1,876	2,103	
Other Empl	20,000	21,450	29,000	24,000	
	21,635	22,012	31,971	25,922	
	12,556	10,453	19,018	15,834	
	276	256	361	893	
TOTAL	25,000	26,000	31,200	29,000	
	26,547	27,800	33,382	30,653	
	13,772	12,183	15,062	14,606	
	2,387	1,686	5,355	9,428	

FULL-TIME EMPLOYED CHEMISTS BY WORK FUNCTION AND DEGREE

WORK FUNCTION	HIGHEST DEGREE Bachelors	Masters	Doctorate	TOTAL	
R&D Mgmt	34,800	37,000	43,000	40,000	-Median
Research	36,206	37,056	45,294	42,456	-Mean
	16,526	13,853	16,107	16,382	-Std Dev
	237	194	891	1,322	-Count
Basic Res	20,200	24,900	32,900	29,700	
	21,649	25,512	33,382	30,364	
	7,518	8,400	10,754	11,012	
	154	147	681	982	
Applied R&D	24,000	27,000	31,700	29,000	
	25,110	27,424	32,865	29,602	
	8,973	8,616	9,673	9,915	
	689	462	1,257	2,408	
Gen Mgmt	33,000	36,000	40,000	36,000	
	36,842	38,720	47,033	40,934	
	26,300	18,508	29,877	26,456	
	214	125	189	528	
Marketing	29,850	30,000	38,000	31,000	
	29,373	32,423	37,595	32,010	
	12,050	15,794	12,230	13,582	
	220	120	95	435	
Prod & QC	22,200	24,800	32,000	24,000	
	23,430	25,583	33,965	25,308	
	9,465	8,511	15,299	10,776	
	414	151	85	650	
Forensic	20,500	22,600	26,600	22,000	
	21,213	23,368	27,781	22,906	
	7,801	7,484	14,147	9,435	
	220	99	67	386	
Writing	28,000	25,000	30,900	27,500	
	27,208	25,418	31,038	27,664	
	8,255	6,260	11,174	8,812	
	25	34	26	85	
Data Proc	---	---	---	28,050	
	27,833	25,271	30,667	27,775	
	2,363	12,888	7,047	9,487	
	3	7	6	16	
Consulting	22,800	25,150	39,000	30,000	
	24,648	27,035	38,312	31,473	
	16,315	10,662	20,083	17,726	
	27	34	49	110	
Other	23,000	25,300	37,000	28,000	
	25,100	25,068	40,801	31,005	
	8,969	9,709	21,622	16,911	
	47	44	55	146	
No response	19,000	19,600	25,000	24,000	
	20,653	19,669	26,631	25,490	
	10,644	7,214	11,659	11,458	
	137	269	1,954 *	2,360	
TOTAL	25,000	26,000	31,200	29,000	
	26,547	27,800	33,382	30,653	
	13,772	12,183	15,062	14,606	
	2,387	1,686	5,355	9,428	

* Primarily college and university teaching

Table-1.1.3

FULL-TIME EMPLOYED CHEMISTS BY SPECIALTY AND DEGREE

SPECIALTY	HIGHEST DEGREE Bachelors	Masters	Doctorate	TOTAL
Biochem	20,550	22,300	30,150	29,000 -Median
	24,524	23,294	31,740	30,511 -Mean
	19,111	8,846	13,647	14,036 -Std Dev
	50	62	608	720 -Count
Agric/Food	27,000	29,000	32,750	30,000
	27,713	32,996	36,850	33,519
	13,635	17,933	20,580	18,743
	129	71	236	436
Analytical	23,000	26,000	29,600	26,000
	23,955	26,969	31,122	27,159
	9,348	9,880	11,293	10,659
	778	414	649	1,841
Environmental	23,000	25,000	32,000	27,600
	24,758	26,544	32,390	28,357
	10,798	11,799	14,333	13,050
	195	149	241	585
Inorganic	27,000	28,100	28,350	28,100
	26,963	28,614	30,019	29,295
	11,885	10,009	11,424	11,371
	95	72	374	541
Organic	28,000	28,650	30,000	29,850
	29,678	30,742	32,458	31,731
	11,865	14,162	16,003	15,142
	283	248	1,137	1,668
Pharm/Med	22,000	26,500	36,000	31,000
	22,689	27,659	38,979	33,493
	11,072	12,752	17,178	16,830
	161	141	467	769
Phys/Theo	24,000	30,000	30,000	30,000
	26,942	29,548	31,902	31,454
	10,693	10,019	13,876	13,586
	45	27	568	640
Polymer	28,000	29,400	37,000	33,500
	29,748	31,328	38,156	34,702
	16,394	12,562	13,959	14,930
	287	190	597	1,074
General	26,000	22,000	26,000	24,400
	29,528	22,738	28,572	27,003
	24,773	10,576	14,892	17,377
	177	203	267	647
Other Chem	27,900	28,000	35,400	30,600
	29,472	27,648	37,435	32,394
	14,720	11,347	16,367	15,392
	187	109	211	507
TOTAL	25,000	26,000	31,200	29,000
	26,547	27,800	33,382	30,653
	13,772	12,183	15,062	14,606
	2,387	1,686	5,355	9,428

Table-1.2.1

SALARIES OF FULL-TIME EMPLOYED BS CHEMISTS by EMPLOYER and YEARS SINCE BACHELOR'S DEGREE

YEARS SINCE BS

EMPLOYER	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+	No Resp	TOTAL	
Mfg Chemicals	---	17,150	21,500	25,000	29,000	29,500	35,000	32,350	38,200	35,000	---	28,000	-Median
	17,346	17,948	21,124	25,437	29,002	30,998	36,714	32,323	42,915	42,797	---	29,740	-Mean
	3,596	4,937	6,159	5,115	6,860	10,132	12,773	12,002	31,942	29,184	---	16,706	-Std Dev
	13	56	85	51	65	55	62	66	52	38	0	543	-Count
Mfg Coating	---	17,600	21,000	27,100	---	26,500	30,000	28,800	---	---	---	24,300	
	17,100	17,605	21,172	27,173	27,311	28,526	32,520	32,848	44,150	31,175	---	26,591	
	2,025	2,986	6,621	6,483	9,471	9,551	10,660	11,103	22,022	16,632	---	12,128	
	10	21	32	13	9	19	15	21	10	8	0	160	
Mfg Food	---	17,000	19,800	24,000	---	---	---	---	---	---	---	22,550	
	16,840	16,044	17,871	24,313	24,838	28,717	27,018	34,350	31,440	45,975	---	24,913	
	4,102	3,676	2,403	5,078	12,967	5,186	7,485	14,295	14,113	12,683	---	10,549	
	5	18	17	16	8	12	11	12	5	4	0	108	
Mfg Metals	---	---	20,000	---	---	---	---	---	---	---	---	24,250	
	18,850	18,915	21,659	22,764	26,913	38,667	34,275	27,100	27,373	11,083	---	23,844	
	495	4,646	3,292	5,288	6,561	21,127	7,221	12,509	11,266	5,920	---	9,175	
	2	13	17	14	13	3	12	9	11	4	0	98	
Mfg Paper	---	---	---	---	---	---	---	---	---	---	---	25,000	
	19,300	19,160	24,100	20,700	28,980	33,200	33,575	31,600	---	---	---	26,131	
	---	2,402	4,483	2,381	8,723	5,825	4,024	---	---	---	---	7,109	
	1	5	9	3	5	4	4	1	0	0	0	32	
Mfg Petroleum	---	---	21,400	---	---	---	---	32,350	---	---	---	28,650	
	18,475	19,950	23,783	27,917	36,614	40,025	36,013	35,453	29,367	45,383	---	31,226	
	3,093	2,128	2,925	6,179	13,478	13,170	11,437	9,662	14,897	32,633	---	13,548	
	4	9	18	6	7	4	8	24	13	6	0	96	
Mfg Pharmaceuticals	---	16,950	21,000	23,500	29,000	40,000	31,000	30,950	---	---	---	24,000	
	16,871	17,670	21,770	24,500	28,156	30,400	32,900	32,077	60,150	29,133	27,800	26,592	
	2,738	5,136	6,032	8,592	7,586	6,824	14,379	9,813	52,643	17,942	---	16,264	
	7	50	49	33	27	31	17	22	12	10	1	259	
Mfg Rubber	---	---	---	---	---	---	---	33,600	36,000	---	---	33,000	
	17,500	19,243	23,588	20,014	31,933	30,714	35,562	34,794	40,013	22,467	---	31,168	
	---	2,746	5,760	9,600	4,844	16,160	9,398	19,407	16,331	16,941	---	14,139	
	1	7	8	7	6	7	13	10	16	6	0	87	
Mfg Other	17,300	17,560	20,000	23,000	26,750	36,000	33,000	31,400	32,500	37,300	---	29,100	
	15,871	18,103	20,821	24,107	27,083	34,798	36,660	36,564	37,996	38,406	---	27,736	
	6,686	4,102	6,221	8,734	10,050	7,459	11,869	14,309	17,641	10,249	---	12,324	
	17	58	57	59	42	60	42	53	27	16	0	431	
Non-Mfg	---	16,000	20,500	---	---	---	---	---	---	---	---	21,450	
	15,418	16,093	19,678	26,583	26,875	32,586	37,757	29,436	42,800	14,700	---	24,388	
	4,273	2,712	6,485	4,966	5,918	13,109	9,833	12,970	11,367	14,009	---	10,683	
	11	20	36	12	8	7	7	11	5	3	0	120	
Fed Govt	---	---	19,850	---	30,450	30,450	31,000	30,500	32,400	---	---	28,500	
	11,850	13,550	18,677	24,383	29,689	30,919	30,700	30,078	32,020	38,438	19,000	27,562	
	919	5,541	5,098	4,630	3,975	4,363	9,058	8,438	11,814	10,033	---	9,562	
	2	10	26	12	18	26	27	27	15	8	1	172	
State Govt	---	---	15,860	19,300	---	---	---	---	---	---	---	19,500	
	---	12,810	15,759	20,533	22,550	23,829	23,933	24,760	30,700	16,380	---	19,645	
	---	5,907	5,861	4,782	5,486	6,136	5,467	3,274	13,970	9,286	---	7,439	
	0	10	27	18	8	7	6	10	4	5	0	95	
Hospitals	---	---	---	---	---	---	---	---	---	---	---	18,000	
	16,050	13,310	16,367	18,250	27,700	29,140	25,350	26,500	21,600	---	---	20,058	
	4,828	5,058	6,776	13,124	12,624	13,970	8,068	9,042	---	---	---	9,844	
	4	10	12	4	3	5	6	5	1	0	0	50	
Non-Profit	---	---	---	---	---	---	---	---	---	---	---	19,750	
	10,800	13,558	16,100	20,967	27,950	29,729	24,029	21,667	30,050	---	---	20,708	
	---	3,065	6,178	5,073	8,460	8,671	7,394	11,969	4,313	---	---	8,921	
	1	12	13	6	6	7	7	6	2	0	0	60	
Self-Empl	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	30,667	---	0	30,000	35,600	48,333	0	---	31,786	
	---	---	---	8,327	---	---	---	9,529	41,138	---	---	22,885	
	0	0	0	3	0	1	1	5	3	1	0	14	
Other Empl	---	---	---	---	---	---	---	---	---	---	---	---	
	---	0	28,000	17,700	24,167	60,000	---	73,000	80,000	---	---	40,420	
	---	---	---	---	3,102	---	---	73,539	---	---	---	37,412	
	0	1	1	1	3	1	0	2	1	0	0	10	
TOTAL	17,350	17,000	20,600	23,700	28,100	30,700	31,500	30,550	35,000	32,000	---	25,000	
	16,476	17,086	20,320	24,245	28,154	31,582	33,825	31,736	39,436	36,234	23,400	27,186	
	4,400	4,720	6,073	7,094	8,162	9,361	11,423	13,008	26,344	22,828	6,223	13,881	
	78	297	407	260	228	249	240	290	177	111	2	2,339	

Table-I.J.2

SALARIES OF FULL-TIME EMPLOYED M.S. CHEMISTS by EMPLOYER and YEARS SINCE BACHELOR'S DEGREE

EMPLOYER	YEARS SINCE BS											TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp		
Mfg Chemicals	---	---	22,500	24,500	31,100	35,000	35,000	35,200	35,700	31,500	---	30,000	-Median
	---	19,025	23,350	25,404	31,856	34,134	38,905	35,432	39,264	28,781	31,000	32,088	-Mean
	---	1,978	4,532	4,966	11,792	9,275	14,368	8,607	18,443	17,669	16,830	12,676	-Std Dev
	0	8	58	47	32	35	58	74	39	16	8	375	-Count
Mfg Coating	---	---	---	---	---	---	---	---	---	---	---	25,150	
	---	20,000	21,708	28,000	32,263	29,383	32,667	35,144	33,000	35,720	21,800	29,018	
	---	1,323	2,452	5,385	8,785	6,659	7,024	13,832	27,435	11,806	1,131	11,092	
	0	3	13	7	8	6	3	9	4	5	2	60	
Mfg Food	---	---	---	---	---	---	---	---	---	---	---	27,150	
	---	16,033	23,540	26,067	29,063	32,400	40,908	43,014	33,286	30,000	13,500	31,166	
	---	3,729	11,233	6,130	3,905	12,919	26,305	8,709	14,160	10,394	---	15,419	
	0	3	10	12	8	5	12	7	7	3	1	68	
Mfg Metals	---	---	---	---	---	---	---	---	---	---	---	28,800	
	---	---	23,667	24,357	30,225	38,900	38,667	33,829	28,000	31,200	30,100	30,383	
	---	---	3,055	5,248	15,112	8,627	8,737	12,488	---	---	12,101	10,939	
	0	0	3	7	8	2	3	7	1	1	3	35	
Mfg Paper	---	---	---	---	---	---	---	---	---	---	---	29,900	
	---	18,200	23,575	30,300	36,000	35,000	33,333	27,000	37,000	---	---	29,088	
	---	---	2,650	2,587	---	---	5,774	9,899	---	---	---	6,592	
	0	1	4	3	1	1	3	2	1	0	0	16	
Mfg Petroleum	---	---	---	---	---	---	---	---	---	---	---	32,100	
	---	22,800	23,063	27,914	39,763	32,800	36,233	44,288	36,000	39,000	38,200	34,468	
	---	---	1,545	7,785	13,801	23,620	6,967	13,334	---	3,960	11,670	13,102	
	0	1	8	7	8	4	3	8	1	2	5	47	
Mfg Pharmaceuticals	---	---	20,050	26,050	29,000	30,000	32,650	35,000	---	---	---	26,050	
	---	19,342	19,602	26,520	28,455	27,343	34,650	34,663	41,813	39,400	28,311	27,202	
	---	4,810	6,034	4,628	7,604	11,793	8,556	7,785	30,757	11,426	7,845	10,887	
	0	12	56	44	33	21	22	19	8	6	9	230	
Mfg Rubber	---	---	---	---	---	---	---	---	---	---	---	32,000	
	---	---	25,300	8,500	35,400	29,850	30,700	30,433	48,900	33,980	21,000	31,330	
	---	---	5,233	12,021	1,705	4,031	5,618	18,263	20,008	14,719	---	14,707	
	0	0	2	2	4	2	5	9	3	5	1	33	
Mfg Other	---	---	21,800	24,400	28,400	36,000	31,500	34,000	---	---	---	28,400	
	---	20,529	22,118	25,478	27,163	40,180	33,865	35,190	36,879	33,850	32,433	30,090	
	---	3,250	6,767	5,923	8,324	17,872	10,829	15,863	13,332	8,889	10,291	12,638	
	0	7	39	37	27	25	20	30	14	10	6	215	
Non-Mfg	---	---	21,250	---	---	---	---	---	---	---	---	27,700	
	---	19,450	22,325	26,456	29,200	33,150	30,833	35,750	29,940	29,375	26,700	28,461	
	---	778	5,337	4,673	6,710	17,982	7,448	18,795	7,907	750	5,077	10,388	
	0	2	16	9	8	8	12	8	5	4	4	76	
Fed Govt	---	---	---	24,000	29,600	---	34,500	---	---	---	---	29,800	
	---	20,800	20,223	23,212	27,372	28,433	34,229	31,508	32,375	34,889	36,800	29,019	
	---	2,546	3,839	8,366	12,698	4,127	7,542	15,391	13,442	11,084	6,414	11,059	
	0	2	13	17	25	9	21	13	8	9	7	124	
State Govt	---	---	---	20,250	---	---	---	---	---	---	---	20,000	
	---	16,233	18,880	20,088	19,150	25,700	16,425	17,900	17,980	22,100	22,000	19,527	
	---	2,730	6,270	7,166	4,925	5,642	12,633	11,172	10,218	4,808	---	7,241	
	0	3	10	16	4	4	4	2	5	2	1	51	
Hospitals	---	---	---	---	---	---	---	---	---	---	---	20,000	
	---	---	17,114	16,675	30,900	20,150	23,000	28,933	23,250	35,000	---	21,500	
	---	---	4,544	11,241	1,273	11,667	4,243	12,840	4,596	---	---	9,213	
	0	0	14	4	2	2	2	6	2	1	0	33	
Non-Profit	---	---	---	---	---	---	---	---	---	---	---	25,000	
	---	19,000	18,933	17,867	26,043	26,611	31,200	31,400	28,000	38,533	14,000	25,458	
	---	3,279	3,837	2,579	3,955	14,257	4,222	3,992	---	9,603	---	9,079	
	0	3	12	3	7	9	8	5	1	3	1	52	
Self-Empl	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	20,000	---	25,500	29,000	36,667	60,000	24,000	---	30,917	
	---	---	---	---	---	36,062	9,899	12,583	---	20,785	---	18,715	
	0	0	0	1	0	2	2	3	1	3	0	12	
Other Empl	---	---	---	---	---	---	---	---	---	---	---	---	
	---	16,300	21,433	25,433	32,000	23,300	31,350	---	52,000	---	---	26,400	
	---	3,253	5,582	513	---	---	1,626	---	---	---	---	9,584	
	0	2	3	3	1	1	2	0	1	0	0	13	
TOTAL	---	19,000	21,100	24,800	30,000	31,350	33,300	35,000	35,000	32,500	29,850	28,000	
	---	19,062	21,351	24,917	29,491	32,304	35,189	34,875	36,435	32,591	30,358	29,380	
	---	3,417	5,763	6,371	10,139	13,609	12,891	12,195	18,038	12,678	11,053	12,233	
	0	47	261	219	176	136	180	202	101	70	48	1,440	

SALARIES OF FULL-TIME EMPLOYED Ph.D. CHEMISTS by EMPLOYER and YEARS SINCE BACHELOR'S DEGREE

EMPLOYER	YEARS SINCE BS											
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL
Mfg Chemicals	---	---	26,500	30,300	37,000	37,850	41,200	43,550	47,400	46,000	31,700	36,300 -Median
	---	---	25,669	30,470	37,692	39,044	43,899	45,762	49,131	52,008	36,922	38,667 -Mean
	---	---	6,016	6,157	9,966	12,099	16,085	13,680	21,998	31,552	22,887	16,160 -Std Dev
	0	0	93	218	203	126	135	130	85	53	45	1,088 -Count
Mfg Coating	---	---	26,000	30,500	33,500	---	---	---	---	---	---	32,500
	---	---	26,894	31,852	33,364	43,990	41,642	40,800	48,100	43,833	37,567	35,693
	---	---	2,623	5,908	6,369	17,196	15,529	15,323	6,046	5,485	8,814	10,617
	0	0	17	23	28	10	12	10	5	3	6	114
Mfg Food	---	---	---	28,250	27,500	39,000	---	---	---	---	---	32,000
	---	---	26,789	30,415	28,626	44,000	34,178	44,686	47,263	48,200	43,167	36,969
	---	---	2,723	8,609	8,078	19,616	14,527	21,397	15,810	23,209	25,181	16,881
	0	0	9	28	23	18	9	7	8	10	3	107
Mfg Metals	---	---	---	---	---	---	---	---	---	---	---	35,000
	---	---	29,075	32,850	33,129	42,767	44,657	34,200	38,914	45,000	28,300	37,202
	---	---	2,965	6,887	4,411	21,068	16,043	20,700	11,053	---	---	13,947
	0	0	4	4	7	6	7	6	7	1	1	43
Mfg Paper	---	---	---	---	---	---	---	---	---	---	---	35,000
	---	---	25,775	31,271	38,045	36,313	40,088	53,150	31,625	54,333	34,000	37,612
	---	---	450	8,637	8,413	4,976	8,172	13,225	2,983	12,503	1,732	10,442
	0	0	4	7	11	8	8	4	4	3	3	52
Mfg Petroleum	---	---	28,000	31,000	40,100	43,350	44,900	51,000	---	---	---	38,850
	---	---	28,260	32,603	39,933	43,106	44,414	43,853	53,618	56,914	42,518	39,361
	---	---	2,439	5,817	5,156	4,087	12,876	19,991	21,945	13,677	17,589	13,851
	0	0	35	29	24	16	22	19	11	7	11	174
Mfg Pharmaceuticals	---	---	26,900	30,000	38,550	40,200	43,600	44,000	48,000	50,000	37,000	37,850
	---	---	26,380	30,469	38,891	40,104	43,638	48,667	53,306	48,787	41,784	39,593
	---	---	5,798	7,002	10,242	13,840	11,233	16,948	21,283	20,889	22,204	15,639
	0	0	35	93	96	71	39	43	32	31	32	472
Mfg Rubber	---	---	---	---	---	---	---	---	---	---	---	36,150
	---	---	25,000	37,720	33,350	37,383	42,767	48,763	36,591	32,375	39,660	38,865
	---	---	---	16,058	2,155	5,522	14,215	14,037	11,211	22,296	4,007	13,094
	0	0	1	10	6	6	9	8	11	4	5	60
Mfg Other	---	---	28,000	30,100	35,250	39,750	42,000	42,500	40,400	43,000	33,400	35,800
	---	---	28,062	30,800	36,435	39,728	43,524	42,755	41,967	44,870	35,886	37,284
	---	---	4,100	7,040	9,950	14,444	14,111	15,733	18,389	13,413	14,964	13,335
	0	0	47	94	86	74	59	53	33	20	21	487
Non-Mfg	---	---	26,200	29,500	35,200	39,050	42,550	---	---	---	---	34,000
	---	---	22,800	30,423	34,191	40,539	45,644	44,038	47,356	62,250	31,644	35,527
	---	---	10,217	6,983	11,380	8,719	16,386	19,181	26,350	36,354	22,651	16,100
	0	0	22	35	45	18	18	8	9	4	9	168
Fed Govt	---	---	24,700	26,000	30,750	34,300	38,500	43,350	45,500	44,000	---	34,100
	---	---	24,957	26,408	29,345	33,625	37,550	40,693	42,666	37,633	38,067	33,879
	---	---	3,090	5,478	8,926	9,679	10,474	11,141	10,195	15,750	9,230	11,040
	0	0	21	59	66	55	66	42	35	18	9	371
State Govt	---	---	---	---	---	---	---	---	---	---	---	26,000
	---	---	16,500	21,675	24,063	29,850	35,575	27,486	68,467	23,000	31,120	31,983
	---	---	2,121	4,090	10,597	10,155	35,472	5,555	83,324	0	12,329	32,566
	0	0	2	8	8	8	8	7	6	2	5	54
Hospitals	---	---	---	---	---	---	---	---	---	---	---	32,000
	---	---	16,567	26,018	37,909	32,073	42,380	45,920	68,333	5,700	32,000	35,037
	---	---	3,669	9,812	18,219	15,319	17,488	23,410	16,503	---	11,314	18,743
	0	0	3	11	11	11	5	5	3	1	2	52
Non-Profit	---	---	22,100	25,100	32,600	32,100	36,000	---	40,000	---	---	30,000
	---	---	20,931	25,504	32,952	32,207	38,082	35,971	40,650	43,088	34,463	31,763
	---	---	6,366	6,464	7,185	5,767	9,626	9,053	11,618	9,420	7,772	10,169
	0	0	16	50	23	15	22	14	16	8	8	172
Self-Empl	---	---	---	---	---	---	---	---	---	---	---	30,000
	---	---	8,000	52,500	22,750	---	56,500	22,000	52,500	35,417	12,500	34,630
	---	---	---	12,990	19,856	---	42,532	20,187	60,104	23,376	17,678	28,955
	0	0	1	3	4	0	4	5	2	6	2	27
Other Empl	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	29,300	24,500	---	---	40,600	28,100	37,100	---	---	32,211
	---	---	---	3,536	---	---	10,465	1,556	5,515	---	---	7,942
	0	0	1	2	0	0	2	2	2	0	0	9
TOTAL	---	---	26,400	29,500	35,000	37,500	40,500	42,000	44,000	45,000	34,650	35,050
	---	---	25,858	29,954	35,653	38,583	42,212	43,686	46,994	47,145	37,352	37,232
	---	---	5,835	7,295	10,322	12,922	14,990	15,497	22,488	23,921	18,852	15,287
	0	0	311	666	641	442	425	363	269	171	162	3,450

Table-1.3.1

SALARIES OF FULL-TIME EMPLOYED B.S. CHEMISTS by WORK FUNCTION and YEARS SINCE BACHELOR'S DEGREE

WORK FUNCTION	YEARS SINCE BS												
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL	
R&D Mgmt	---	---	25,000	28,100	34,000	34,800	36,000	37,400	44,000	40,500	---	35,000	-Median
	20,667	21,386	23,884	26,541	34,489	36,712	38,129	35,963	52,211	40,500	---	36,219	-Mean
	2,517	11,624	4,417	9,223	6,936	8,953	10,732	9,357	34,597	14,452	---	16,262	-Std Dev
	3	7	19	17	38	33	41	38	27	23	0	246	-Count
Basic Research	---	17,050	19,000	21,200	---	---	27,900	---	---	---	---	20,400	
	13,950	16,775	19,231	22,683	27,464	26,217	28,867	21,118	38,360	41,600	---	21,899	
	3,373	3,955	5,314	4,786	5,678	4,343	6,550	12,256	5,680	---	---	7,857	
	10	40	29	18	14	12	15	11	5	1	0	155	
Applied R&D	17,300	17,000	20,950	23,250	26,000	28,400	31,000	31,300	33,100	30,650	---	24,000	
	16,303	17,513	23,689	23,627	27,300	29,342	32,446	30,746	33,032	31,775	---	25,220	
	4,106	3,113	6,074	6,937	8,359	7,357	8,562	7,648	9,149	11,258	---	9,077	
	31	95	136	78	61	59	69	76	47	28	0	700	
Gen Mgmt	---	---	---	26,700	32,600	36,000	41,750	35,000	42,000	36,000	---	34,350	
	19,600	14,910	21,900	28,633	29,024	35,900	45,319	37,781	50,307	46,072	---	37,214	
	5,134	5,651	8,663	9,296	8,043	11,377	14,231	23,021	44,850	39,071	---	24,951	
	4	10	12	19	21	53	32	37	29	25	0	242	
Marketing	---	17,700	22,050	27,750	30,500	32,000	31,800	30,000	36,000	---	---	30,000	
	18,833	19,600	21,065	26,580	29,304	33,743	31,667	31,953	36,954	40,617	---	29,446	
	3,686	5,503	9,134	8,676	6,475	9,279	11,486	12,726	13,947	14,653	---	12,071	
	3	24	26	20	26	23	21	38	28	12	0	221	
Prod & QC	---	16,900	21,000	23,000	24,950	27,000	29,500	28,800	26,000	---	---	22,350	
	17,136	16,796	20,841	23,286	23,111	28,410	29,829	30,296	30,381	26,877	---	23,525	
	4,336	4,027	3,955	6,077	8,865	8,912	8,576	11,658	20,591	11,170	---	9,505	
	14	79	88	59	28	31	38	45	21	13	0	416	
Forensic	---	16,200	18,050	21,500	26,750	---	---	30,000	---	---	---	20,500	
	13,744	15,455	17,838	22,534	25,138	26,957	23,938	28,733	28,240	18,900	19,000	21,202	
	3,443	5,457	5,797	5,215	5,568	5,131	12,577	8,412	4,246	5,358	---	7,817	
	9	31	60	35	29	14	13	21	5	4	1	219	
Writing	---	---	---	---	---	---	---	---	---	---	---	28,000	
	---	---	---	27,000	29,960	29,640	29,000	17,233	23,633	29,350	---	27,208	
	---	---	---	---	11,035	1,877	3,883	15,413	8,489	2,758	---	8,255	
	0	0	0	1	5	5	6	3	3	2	0	25	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	26,000	27,000	---	30,500	---	---	---	27,833	
	---	---	---	---	---	---	---	---	---	---	---	2,363	
	0	0	0	0	1	1	0	1	0	0	0	3	
Consulting	---	---	---	---	---	---	---	---	---	---	---	22,800	
	19,200	15,333	20,625	29,133	42,000	18,800	---	28,950	43,250	0	---	24,648	
	---	5,508	2,142	4,185	---	13,043	---	5,405	29,228	0	---	16,315	
	1	3	4	3	1	5	0	4	4	2	0	27	
Other	---	---	---	---	---	---	---	---	---	---	---	23,400	
	16,500	16,283	19,800	22,643	22,567	32,300	33,900	28,313	36,700	---	---	26,116	
	1,273	2,678	4,268	7,594	4,412	7,540	14,979	7,086	14,835	---	---	10,298	
	2	6	6	7	3	8	4	8	5	0	0	49	
TOTAL	17,400	17,000	20,650	23,000	28,100	30,850	32,000	30,550	35,000	31,850	---	25,000	
	16,595	17,130	20,358	24,181	28,205	31,667	33,918	31,563	39,392	36,234	19,000	27,186	
	4,300	4,629	5,913	7,059	8,214	9,375	11,609	12,920	26,550	22,932	---	13,899	
	77	295	400	357	224	244	239	282	174	110	1	2,303	

Table-1.3.2

SALARIES OF FULL-TIME EMPLOYED U.S. CHEMISTS by WORK FUNCTION and YEARS SINCE BACHELOR'S DEGREE

YEARS SINCE BS

WORK FUNCTION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50 Over	TOTAL
R&D Mgmt	---	---	---	27,000	35,900	41,500	[illegible]	[illegible]	[illegible]	---	---	[illegible]	[illegible]
	---	---	29,117	27,488	35,063	38,000	43,846	47,333	44,579	46,000	46,000	[illegible]	[illegible]
	---	---	5,313	8,879	7,658	3,304	4,707	11,914	10,695	14,423	9,500	[illegible]	[illegible]
	0	0	12	17	8	11	13	12	23	13	4	[illegible]	[illegible]
Basic Research	---	---	19,100	23,000	---	---	31,000	---	---	---	---	---	[illegible]
	---	18,822	18,586	24,496	26,918	29,829	33,800	36,167	41,667	41,333	28,417	[illegible]	[illegible]
	---	2,982	4,182	4,322	9,661	6,296	[illegible]	11,863	5,816	4,938	8,500	[illegible]	[illegible]
	0	9	43	28	13	14	10	3	7	3	6	[illegible]	[illegible]
Applied R&D	---	19,000	21,900	24,900	28,000	28,900	[illegible]	32,000	32,000	[illegible]	[illegible]	[illegible]	[illegible]
	---	18,860	21,706	24,576	27,663	29,934	31,874	42,860	41,234	47,000	28,000	[illegible]	[illegible]
	---	2,371	5,586	5,499	10,337	4,977	5,609	2,645	2,574	9,000	2,828	[illegible]	[illegible]
	0	15	97	74	64	33	10	20	25	12	20	[illegible]	[illegible]
Gen Mgmt	---	---	---	---	32,000	[illegible]	36,000	[illegible]	---	---	---	---	[illegible]
	---	---	26,660	23,892	31,700	32,000	[illegible]	[illegible]	36,683	37,822	[illegible]	[illegible]	[illegible]
	---	---	5,601	9,091	11,763	21,177	19,077	16,943	23,803	[illegible]	[illegible]	[illegible]	[illegible]
	0	0	5	12	15	19	[illegible]	27	12	9	[illegible]	[illegible]	[illegible]
Marketing	---	---	23,000	25,500	---	---	---	36,250	---	---	---	---	[illegible]
	---	---	23,278	28,536	33,755	38,433	39,667	44,750	49,250	[illegible]	[illegible]	[illegible]	[illegible]
	---	---	5,329	6,977	9,021	16,975	11,503	16,943	16,771	24,041	[illegible]	[illegible]	[illegible]
	0	0	27	22	11	14	3	10	14	6	[illegible]	[illegible]	[illegible]
Prod & QC	---	---	19,700	24,200	23,500	---	31,000	[illegible]	---	---	---	---	[illegible]
	---	18,900	20,190	24,974	25,039	26,609	31,150	31,069	29,500	28,000	24,000	[illegible]	[illegible]
	---	4,725	5,313	5,444	10,500	5,340	13,855	6,826	6,500	4,729	3,536	[illegible]	[illegible]
	0	13	21	35	18	11	10	16	9	3	7	[illegible]	[illegible]
Forensic	---	---	20,000	---	---	---	---	---	---	---	---	---	[illegible]
	---	18,375	19,950	20,907	28,333	25,613	30,200	31,500	15,967	27,333	27,000	[illegible]	[illegible]
	---	3,890	4,662	6,539	8,173	4,085	6,957	[illegible]	13,014	3,641	---	[illegible]	[illegible]
	0	4	38	14	12	8	11	6	3	3	1	[illegible]	[illegible]
Writing	---	---	---	---	---	---	---	---	---	---	---	---	[illegible]
	---	22,800	18,900	24,933	25,350	27,765	27,052	27,735	24,563	19,667	28,000	[illegible]	[illegible]
	---	---	3,960	3,118	4,959	3,263	4,144	4,899	---	[illegible]	---	[illegible]	[illegible]
	0	1	2	3	4	8	5	4	1	3	1	[illegible]	[illegible]
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	17,500	---	36,650	30,000	25,000	---	---	---	[illegible]	[illegible]
	---	---	---	---	---	495	---	778	---	---	---	[illegible]	[illegible]
	0	0	1	1	1	2	1	2	1	0	0	[illegible]	[illegible]
Consulting	---	---	---	---	---	---	---	---	---	---	---	---	[illegible]
	---	18,550	24,188	25,640	29,500	19,175	32,833	31,133	38,333	32,733	14,000	[illegible]	[illegible]
	---	71	5,688	6,198	7,778	16,028	[illegible]	17,539	15,822	3,532	---	[illegible]	[illegible]
	0	2	8	5	2	4	3	3	3	1	1	[illegible]	[illegible]
Other	---	---	---	---	---	---	---	---	---	---	---	---	[illegible]
	---	21,900	18,443	25,520	28,317	28,900	[illegible]	25,429	27,000	---	---	[illegible]	[illegible]
	---	3,874	9,310	8,435	3,812	---	[illegible]	13,196	14,668	---	---	[illegible]	[illegible]
	0	3	7	10	6	1	2	2	6	1	0	[illegible]	[illegible]
TOTAL	---	19,000	21,200	25,000	30,000	31,500	33,[illegible]	35,[illegible]	35,[illegible]	32,000	29,[illegible]	[illegible]	[illegible]
	---	19,062	21,378	25,017	29,666	32,334	35,[illegible]	[illegible]	37,123	33,611	29,[illegible]	[illegible]	[illegible]
	---	3,417	5,756	6,394	10,171	13,363	11,[illegible]	13,110	18,048	12,[illegible]	11,[illegible]	[illegible]	[illegible]
	0	47	260	221	175	137	[illegible]	199	163	69	[illegible]	[illegible]	[illegible]

Table-1.3.3

SALARIES OF FULL-TIME EMPLOYED Ph.D. CHEMISTS by WORK FUNCTION and YEARS SINCE BACHELOR'S DEGREE

WORK FUNCTION	YEARS SINCE BS											
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL
R&D Mgmt	---	---	29,000	35,000	39,200	43,500	46,000	50,000	50,000	49,350	41,000	43,000 -Median
	---	---	29,525	34,717	40,061	45,703	47,274	53,147	52,837	51,290	45,088	45,266 -Mean
	---	---	5,419	7,479	10,918	13,920	18,413	15,615	18,271	18,101	19,874	16,067 -Std Dev
	0	0	16	103	194	137	128	121	94	62	41	896 -Count
Basic Research	---	---	26,100	28,300	34,300	36,450	37,200	40,500	41,000	45,000	34,200	32,900
	---	---	25,482	28,847	34,545	35,910	37,815	39,599	41,712	39,847	36,258	33,430
	---	---	6,289	6,515	7,398	12,237	9,475	14,399	8,495	21,526	9,462	10,819
	0	0	101	165	118	86	61	67	43	17	24	682
Applied R&D	---	---	26,450	28,850	32,800	36,000	38,000	38,000	39,000	37,000	30,000	31,700
	---	---	26,057	28,748	32,877	35,174	38,789	37,836	39,180	41,593	30,299	32,853
	---	---	5,418	5,804	7,858	8,292	9,291	11,639	9,038	15,482	11,424	9,648
	0	0	174	296	221	141	147	108	71	43	67	1,268
Gen Mgmt	---	---	---	30,400	37,000	38,200	42,200	40,000	50,000	50,050	---	40,000
	---	---	---	33,638	38,468	40,948	45,247	42,776	72,033	58,350	57,164	46,958
	---	---	---	12,721	17,479	17,006	12,478	13,530	52,649	47,511	39,569	29,816
	0	0	0	21	31	29	36	21	21	20	11	190
Marketing	---	---	---	32,000	37,950	---	42,000	---	---	---	---	38,000
	---	---	25,925	30,547	38,231	37,700	40,928	45,217	40,371	33,183	43,183	37,830
	---	---	3,876	9,688	10,797	9,592	7,652	9,265	15,527	18,800	21,684	12,233
	0	0	4	17	16	11	18	12	7	6	6	97
Prod & QC	---	---	---	28,150	34,000	---	---	---	---	---	---	31,850
	---	---	26,280	27,879	34,329	31,810	49,989	35,222	31,680	32,800	36,633	33,369
	---	---	1,481	7,792	10,519	12,795	27,800	8,540	20,020	3,960	16,038	14,365
	0	0	5	24	17	10	9	9	5	2	3	84
Forensic	---	---	---	---	27,750	---	---	---	---	---	---	26,600
	---	---	19,771	26,164	25,635	26,640	36,400	49,367	36,000	23,000	21,800	27,781
	---	---	5,530	4,118	12,046	7,476	14,242	31,665	41,905	---	2,404	14,147
	0	0	7	14	20	10	7	3	3	1	2	67
Writing	---	---	---	---	---	---	---	---	---	---	---	30,900
	---	---	8,000	24,150	31,986	27,600	15,650	27,000	42,850	40,250	35,400	31,038
	---	---	---	2,616	6,864	4,055	22,132	---	8,505	3,182	7,472	11,174
	0	0	1	2	7	4	2	1	4	2	3	26
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	26,350	25,000	33,150	---	40,000	---	---	---	---	30,667
	---	---	3,323	---	8,273	---	---	---	---	---	---	7,047
	0	0	2	1	2	0	1	0	0	0	0	6
Consulting	---	---	---	---	---	---	---	---	---	---	---	39,000
	---	---	---	27,700	33,913	39,550	54,667	30,644	40,275	53,278	20,050	38,312
	---	---	---	16,582	14,516	7,815	22,745	14,555	17,280	26,973	28,355	20,083
	0	0	0	6	8	4	3	9	8	9	2	49
Other	---	---	---	---	---	---	---	---	---	---	---	37,000
	---	---	28,400	40,608	32,800	36,283	45,978	42,863	40,570	45,870	40,000	41,032
	---	---	2,946	15,772	6,275	8,349	34,336	10,548	29,582	22,126	---	21,377
	0	0	3	6	4	6	9	8	10	10	1	57
TOTAL	---	---	26,400	29,500	35,000	37,850	40,500	42,000	44,000	45,000	34,650	35,050
	---	---	25,877	29,907	35,591	38,772	42,231	43,794	47,004	47,205	37,353	37,253
	---	---	5,822	7,414	10,374	12,839	15,054	15,441	22,702	24,279	18,993	15,379
	0	0	313	655	638	438	421	359	266	172	160	3,422

SALARIES OF FULL-TIME EMPLOYED B.S. CHEMISTS by SPECIALTY and YEARS SINCE BACHELOR'S DEGREE

SPECIALTY	YEARS SINCE BS											
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 Years	TOTAL
Biochemistry	---	---	---	---	---	---	---	---	---	---	---	--Median
	12,667	17,886	17,244	17,800	18,167	24,833	23,850	33,900	37,000	27,500	---	--Mean
	3,276	13,920	3,250	4,086	14,334	3,416	4,172	21,538	12,935	08,891	---	--Std Dev
	6	7	9	4	3	6	2	6	5	2		--Count
Agric/Food	---	17,000	20,000	21,000	---	---	30,000	30,000	---	---	---	
	14,000	16,707	20,852	24,533	29,425	31,327	31,106	37,176	32,658	36,000	27,600	
	1,414	5,377	4,747	10,057	6,140	8,734	8,818	23,031	8,845	16,447	---	
	2	15	21	15	8	11	17	17	12	10	1	
Analytical	17,400	17,000	20,000	23,350	26,000	28,000	31,000	31,000	38,000	25,850	---	
	16,397	17,217	20,137	24,141	25,549	28,580	29,361	30,749	36,800	27,633	---	
	4,783	4,407	5,596	5,931	7,403	9,265	11,669	13,623	15,225	13,707	---	
	35	126	155	108	73	69	87	43	20	9	1	
Environmental	---	14,650	18,000	27,000	28,500	30,000	---	25,800	---	---	---	
	14,500	15,782	18,390	25,630	26,946	34,203	35,253	27,919	37,175	39,667	33,[illegible]	
	2,121	4,046	6,383	5,745	8,137	7,656	11,954	7,796	13,305	13,188	---	
	2	28	41	23	24	9	12	26	12	9	1	
Inorganic	---	---	19,000	---	---	---	---	---	---	---	---	
	17,000	16,810	19,563	24,355	26,800	32,509	37,091	22,914	33,[illegible]	43,000	---	
	1,414	3,841	4,634	10,706	7,481	13,528	9,[illegible]	14,[illegible]	8,136	26,814	---	
	2	10	19	11	8	11	11	6	11	3		
Organic	---	17,000	21,000	25,100	28,100	32,000	33,000	33,800	41,000	31,500	---	
	19,225	17,241	21,691	23,962	30,303	31,962	36,731	34,543	39,380	41,260	---	
	3,279	3,687	5,001	3,739	8,317	11,199	13,320	11,449	13,288	14,542	---	
	4	29	44	34	37	34	29	47	15	2		
Pharm/Med	---	15,850	18,000	21,000	---	28,000	27,000	---	---	---	---	
	14,908	15,632	16,743	19,876	27,792	31,101	29,367	31,902	32,488	24,333	---	
	3,603	4,642	8,924	10,712	6,436	7,194	11,651	11,922	17,[illegible]	9,417	---	
	12	22	30	23	12	20	13	13	7	4	1	
Phys/Theo	---	---	---	---	---	---	---	---	---	---	---	
	12,950	16,400	22,400	24,350	21,000	30,233	34,[illegible]	26,200	41,[illegible]	[illegible]	---	
	9,276	3,329	4,812	4,897	5,243	5,811	9,520	1,915	5,666	14,133	---	
	4	6	5	5	2	6	3	4	6	2		
Polymer	---	17,950	21,000	27,100	28,[illegible]	31,[illegible]	35,000	33,[illegible]	38,[illegible]	33,[illegible]	---	
	18,633	18,925	21,534	26,912	29,[illegible]	31,918	36,395	36,[illegible]	42,[illegible]	36,[illegible]	---	
	1,300	5,310	6,266	5,164	[illegible],291	13,939	9,[illegible]	14,[illegible]	1,[illegible]	10,[illegible]	---	
	6	32	53	25	25	29	18	9	11	13		
General	---	17,000	20,000	---	27,000	32,[illegible]	29,[illegible]	29,[illegible]	[illegible],[illegible]	---	---	
	19,450	15,800	19,139	19,600	27,771	32,054	31,[illegible]	31,227	[illegible],277	[illegible],277	---	
	4,553	3,593	6,785	6,535	[illegible],[illegible]	6,[illegible]	9,912	11,581	25,[illegible]	[illegible],[illegible]	---	
	8	18	28	14	17	18	13	26	23	13	1	
Other Chem	---	16,000	22,000	25,350	32,350	31,[illegible]	32,[illegible]	34,[illegible]	37,[illegible]	---	---	
	17,840	16,576	21,179	26,550	33,338	33,[illegible]	37,[illegible]	29,[illegible]	[illegible],[illegible]	28,[illegible]	---	
	3,642	2,971	6,321	[illegible],096	9,529	12,[illegible]	16,9[illegible]	13,709	19,[illegible]	[illegible],[illegible]	---	
	5	21	24	18	24	23	23	23	19	13		
TOTAL	16,350	17,000	20,000	23,400	25,[illegible]	30,[illegible]	31,[illegible]	30,[illegible]	38,[illegible]	30,[illegible]	---	
	16,106	16,807	20,034	23,966	27,983	31,[illegible]	33,[illegible]	31,743	39,146	33,667	23,[illegible]	
	4,492	4,762	6,096	7,144	[illegible],169	9,[illegible]	11,[illegible]	11,236	26,[illegible]	[illegible],[illegible]	[illegible],723	
	86	314	429	272	233	261	256	163	130	114	2	

Table-1.4.2

SALARIES OF FULL-TIME EMPLOYED M.S. CHEMISTS by SPECIALTY and YEARS SINCE BACHELOR'S DEGREE

SPECIALTY	YEARS SINCE BS											TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	
Biochemistry	---	---	15,600	---	---	---	---	---	---	---	---	22,300 -Median
	---	15,867	16,625	23,038	23,622	31,820	27,275	26,050	33,733	21,350	34,067	23,794 -Mean
	---	4,373	4,839	6,887	11,099	6,638	6,921	8,573	5,900	3,748	9,657	8,846 -Std Dev
	0	3	16	13	9	5	4	4	3	2	3	62 -Count
Agric/Food	---	---	---	---	---	---	---	---	---	---	---	29,000
	---	16,250	26,488	25,150	30,009	36,350	42,190	41,467	39,213	29,550	21,300	32,996
	---	5,303	11,780	5,542	6,395	13,938	30,048	27,048	15,870	9,369	---	17,933
	0	2	8	12	11	6	10	9	8	4	1	71
Analytical	---	18,750	20,500	23,100	28,400	29,500	32,000	35,000	29,000	30,200	---	26,000
	---	18,638	20,760	23,991	28,182	30,708	31,909	34,022	27,904	32,107	25,767	26,869
	---	4,050	5,939	6,662	11,577	11,933	10,327	7,841	10,516	7,453	7,543	9,880
	0	16	84	75	50	37	56	45	24	15	12	414
Environment	---	---	21,000	22,700	29,350	26,300	34,300	---	---	---	---	25,000
	---	18,557	20,342	24,067	28,190	30,571	30,753	29,836	28,458	34,857	20,533	26,544
	---	3,296	6,832	9,141	7,053	24,101	10,485	14,405	13,500	6,285	11,843	11,709
	0	7	31	21	20	17	17	14	12	7	3	149
Inorganic	---	---	---	---	---	---	---	---	---	---	---	28,100
	---	19,300	22,575	24,529	24,338	31,450	37,770	26,162	27,950	32,000	34,917	28,614
	---	3,111	4,454	4,281	11,148	8,957	7,590	7,551	16,385	2,449	13,138	10,009
	0	2	8	7	8	8	10	13	6	4	6	72
Organic	---	---	20,250	25,000	29,800	35,000	34,500	33,800	35,700	---	---	28,650
	---	17,867	19,539	24,797	29,759	32,183	37,255	34,031	42,760	29,700	37,675	30,742
	---	2,317	5,604	5,085	11,050	14,525	10,102	13,243	21,304	22,259	10,342	14,162
	0	6	38	34	27	29	33	39	25	9	8	248
Pharm/Med	---	---	18,850	26,000	29,900	28,150	---	43,000	---	---	---	26,500
	---	19,620	19,225	26,126	29,582	26,094	28,440	33,676	40,930	41,333	30,380	27,639
	---	5,331	4,457	5,075	8,120	11,372	7,168	8,460	33,596	16,442	6,912	12,752
	0	5	28	23	22	18	10	17	10	3	5	141
Phys/Theo	---	---	---	---	---	---	---	---	---	---	---	30,000
	---	18,000	---	28,740	29,000	30,433	34,467	32,625	27,000	41,000	27,633	29,548
	---	4,518	---	3,422	---	4,008	1,361	6,600	23,388	8,202	13,882	10,019
	0	3	0	5	1	3	3	4	3	2	3	27
Polymer	---	---	23,800	25,200	31,500	32,700	33,600	35,000	36,000	---	---	30,000
	---	20,500	23,246	25,056	31,068	32,367	38,177	37,609	39,194	34,920	31,171	31,710
	---	1,620	3,337	7,538	10,543	11,715	16,276	11,147	13,420	12,465	11,939	12,483
	0	5	37	27	22	21	31	36	16	10	7	210
General	---	---	18,000	16,700	23,000	22,000	24,800	27,800	---	---	---	22,000
	---	12,140	17,454	17,773	22,129	24,766	26,800	29,572	24,820	25,811	22,983	22,738
	---	2,334	5,087	6,896	10,485	10,872	9,758	14,348	5,367	13,681	3,436	10,576
	0	5	24	33	31	28	28	29	10	9	6	203
Other Chem	---	---	21,000	25,150	---	---	---	36,500	---	---	---	28,000
	---	20,450	21,124	24,019	24,714	32,333	30,262	32,970	40,050	31,740	13,900	27,648
	---	3,323	7,381	6,081	12,404	20,648	5,791	10,897	9,658	14,121	12,638	11,347
	0	2	21	16	14	3	12	20	8	10	3	109
TOTAL	---	18,350	20,500	24,000	28,000	28,800	31,000	33,700	32,300	30,000	28,300	26,100
	---	18,039	20,462	23,732	27,695	29,993	31,067	31,209	34,790	31,823	29,049	25,888
	---	3,981	6,213	6,882	10,947	14,096	11,902	12,407	17,783	12,617	10,884	12,198
	0	56	295	266	215	175	214	228	125	75	57	1,706

SALARIES OF FULL-TIME EMPLOYED Ph.D CHEMISTS by SPECIALTY and YEARS SINCE BACHELOR'S DEGREE

SPECIALTY	YEARS SINCE BS											
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL
Biochemistry	---	---	19,050	22,000	28,000	32,000	36,000	36,800	39,250	42,750	30,000	30,250 -Media
	---	---	16,855	22,190	28,604	32,909	36,083	36,032	40,488	41,013	30,260	31,769 -Mean
	---	---	9,189	6,989	9,268	14,073	13,297	11,494	17,904	14,241	12,671	13,660 -Std Dev
	0	0	20	91	113	94	81	73	52	40	42	606 -Count
Agric/Food	---	---	---	27,000	30,000	35,900	36,500	42,000	45,650	44,850	---	32,750
	---	---	23,885	28,349	30,793	38,134	36,068	44,267	56,482	47,411	34,592	36,850
	---	---	3,749	7,624	11,439	16,617	13,866	15,187	45,224	19,877	17,437	20,580
	0	0	13	41	43	38	28	21	22	18	12	236
Analytical	---	---	26,000	27,500	31,300	30,700	36,600	35,000	32,250	30,150	30,600	29,650
	---	---	24,790	26,867	31,328	32,364	38,259	36,344	34,331	31,422	30,494	31,132
	---	---	5,576	6,703	11,154	11,605	13,513	12,920	13,687	11,728	10,301	11,299
	0	0	80	125	149	83	75	55	32	18	31	648
Environment	---	---	25,350	26,300	28,050	35,200	37,500	38,100	44,700	---	---	32,000
	---	---	24,068	27,322	27,448	33,111	38,936	39,531	44,614	31,490	29,800	32,390
	---	---	7,263	8,239	11,326	8,310	19,659	10,691	19,675	15,505	15,436	14,333
	0	0	22	49	44	27	36	26	21	10	6	241
Inorganic	---	---	26,000	27,000	27,000	29,500	30,300	35,000	39,100	---	---	28,350
	---	---	24,989	26,700	28,882	30,669	30,549	37,542	37,645	40,358	28,189	30,019
	---	---	6,132	8,207	10,411	11,558	10,768	16,593	10,610	17,060	7,768	11,424
	0	0	54	70	72	67	35	33	22	12	9	374
Organic	---	---	26,000	26,400	30,400	30,400	31,000	37,700	36,600	35,800	30,000	30,000
	---	---	24,195	25,916	31,689	32,129	33,996	38,069	39,223	43,616	32,629	32,469
	---	---	6,801	8,021	18,351	13,073	14,257	14,910	22,439	20,788	18,244	16,012
	0	0	91	185	208	175	155	118	94	58	51	1,135
Pharm/Med	--	---	22,600	28,500	36,400	39,050	45,000	46,000	41,700	48,000	40,000	36,000
	---	---	21,141	29,052	36,854	40,350	44,739	48,853	47,777	47,145	44,700	38,858
	---	---	6,539	8,958	11,996	13,392	18,592	15,806	23,536	20,323	21,409	17,080
	0	0	27	95	85	68	49	43	35	33	30	465
Phys/Theo	---	---	25,500	25,900	27,500	28,500	32,500	36,000	38,500	40,000	36,000	30,000
	---	---	22,879	24,975	29,410	30,171	32,763	37,021	39,774	43,926	35,289	31,902
	---	---	8,652	7,875	10,214	9,912	10,388	16,029	13,458	26,099	15,204	13,876
	0	0	34	93	87	93	88	66	50	38	19	568
Polymer	---	---	26,150	32,000	36,000	37,000	41,200	42,500	41,000	46,950	31,450	37,000
	---	---	24,993	32,349	36,435	38,170	42,616	44,087	42,275	50,015	33,497	38,122
	---	---	7,493	8,843	10,182	11,616	8,523	16,208	13,957	31,881	10,712	13,836
	0	0	42	101	107	81	105	71	59	26	30	622
General	---	---	---	25,300	23,850	22,800	25,500	27,000	28,000	36,100	---	26,000
	---	8,100	21,044	21,503	25,974	27,090	37,613	27,578	32,905	35,263	29,213	28,572
	---	---	6,624	9,489	10,307	10,695	26,196	11,926	12,083	16,616	16,988	14,892
	0	1	9	29	62	39	31	41	20	27	8	267
Other Chem	---	---	24,000	31,000	32,800	36,000	39,000	41,750	42,000	---	---	35,400
	---	---	21,831	31,373	34,148	36,267	40,138	48,823	47,237	49,833	49,040	37,435
	---	---	8,706	7,413	9,436	12,757	10,673	17,895	19,570	20,459	38,475	16,367
	0	0	16	45	42	27	24	22	19	6	10	211
TOTAL	---	---	25,500	27,000	30,900	32,650	36,000	38,000	39,950	40,000	32,000	31,300
	---	8,100	23,648	26,978	31,361	33,431	37,089	39,010	41,337	42,535	34,050	33,396
	---	---	7,080	8,447	12,907	12,824	14,558	15,380	20,695	21,203	17,454	15,034
	0	1	408	924	1,012	792	707	569	426	286	248	5,373

Table-1.5.1

SALARIES OF FULL-TIME EMPLOYED BS CHEMISTS by GEOGRAPHIC REGION and YEARS SINCE BACHELOR'S DEGREE

REGION	YEARS SINCE BS											
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL
Pacific	---	17,100	20,900	21,250	26,500	30,000	30,300	30,000	---	33,500	---	25,000 -Median
	17,333	17,467	21,076	23,382	26,581	29,903	31,983	34,663	44,179	33,669	---	27,472 -Mean
	3,572	6,469	6,043	10,520	5,123	10,030	10,817	11,945	22,431	13,164	---	12,449 -Std Dev
	9	30	42	22	26	33	24	35	14	16	0	251 -Count
Mountain	---	---	19,300	---	---	---	---	---	---	---	---	23,100
	12,650	18,625	18,905	25,550	34,533	35,388	27,280	36,175	42,850	---	---	25,620
	212	4,264	6,286	5,381	16,061	6,672	9,364	11,823	12,940	---	---	11,169
	2	8	20	6	6	8	5	4	2	0	0	61
W N Central	---	15,000	19,000	22,500	---	---	---	28,500	---	---	---	22,000
	13,325	15,064	18,997	23,200	27,022	29,285	31,013	31,024	52,809	26,900	---	25,245
	3,867	2,758	7,233	4,737	12,311	6,962	8,549	11,063	66,958	18,318	---	21,934
	4	25	30	17	9	13	8	17	11	5	0	139
W S Central	---	17,500	22,350	24,000	32,600	28,000	29,400	31,100	---	---	---	25,000
	16,917	17,433	21,987	24,600	30,333	29,167	31,575	32,873	30,182	45,560	27,800	27,079
	3,800	3,258	5,291	6,957	7,439	7,761	11,788	22,049	13,187	18,791	---	12,949
	6	21	30	20	15	15	24	26	11	5	1	174
E N Central	18,000	17,950	20,000	23,400	28,000	30,000	30,100	30,000	36,650	36,000	---	24,000
	17,370	17,846	19,397	23,515	28,364	30,554	32,250	30,006	42,092	33,995	---	26,219
	4,823	5,003	6,333	6,849	6,697	7,259	14,293	12,587	29,765	15,936	---	14,035
	23	84	105	65	61	46	50	68	48	19	0	569
E S Central	---	---	21,100	---	---	---	---	32,400	---	---	---	25,000
	23,000	14,914	20,885	22,231	22,967	31,614	29,800	32,181	31,614	26,600	---	25,982
	---	2,422	4,571	4,193	5,337	6,552	11,563	8,612	5,803	1,980	---	8,396
	1	7	20	13	6	7	8	16	14	2	0	94
Mid Atlantic	16,650	17,000	20,600	24,200	28,000	27,600	32,900	31,000	32,000	31,000	---	25,000
	15,809	16,644	19,641	24,327	27,249	30,852	34,358	31,630	35,860	39,783	19,000	27,280
	4,930	4,202	6,177	7,254	8,425	12,160	10,832	12,220	17,415	29,184	---	14,271
	22	75	97	73	63	60	71	74	47	46	1	629
So Atlantic	---	15,000	21,000	24,500	29,750	30,000	36,300	32,250	36,900	---	---	26,300
	15,086	15,511	20,586	24,024	27,757	30,309	37,318	31,268	38,109	33,464	---	26,775
	4,103	6,123	5,749	6,929	8,383	6,216	11,630	12,159	14,993	22,343	---	12,077
	14	37	59	37	30	35	38	38	22	11	0	321
New England	---	16,450	20,000	25,600	28,200	36,000	31,800	30,000	---	---	---	27,750
	12,900	16,158	20,161	25,689	29,600	36,483	34,521	32,681	40,209	26,289	---	28,698
	3,672	3,337	6,223	8,332	9,949	7,677	8,535	15,109	20,472	19,252	---	12,908
	4	26	23	18	15	42	19	21	11	9	0	188
TOTAL	16,500	17,000	20,000	23,400	28,000	30,500	31,400	30,500	35,000	31,700	---	25,000
	16,108	16,810	20,025	23,981	27,956	31,502	33,499	31,807	39,146	35,706	23,400	26,871
	4,518	4,770	6,113	7,153	8,136	9,139	11,657	13,299	26,245	22,950	6,223	13,883
	85	313	426	271	231	259	247	299	180	113	2	2,426

Table-1.5.2

SALARIES OF FULL-TIME EMPLOYED M.S. CHEMISTS by GEOGRAPHIC REGION and YEARS SINCE BACHELOR'S DEGREE

REGION	YEARS SINCE BS											
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL
Pacific	---	---	19,650	24,250	27,300	23,000	29,500	---	---	---	---	24,750 -Median
	---	18,017	18,865	25,265	21,950	25,015	29,095	37,057	39,014	36,933	27,500	25,884 -Mean
	---	2,840	9,349	5,879	12,103	9,134	9,918	13,053	23,257	12,669	9,115	12,039 -Std Dev
	0	6	34	26	18	20	20	14	7	6	7	158 -Count
Mountain	---	---	---	---	---	---	---	---	---	---	---	24,000
	---	19,900	17,864	22,585	21,883	28,540	32,986	28,233	29,250	33,267	28,675	24,931
	---	2,381	5,038	4,395	11,574	7,969	9,308	8,280	6,602	7,457	11,001	8,637
	0	3	11	13	6	5	7	3	4	3	4	59
W N Central	---	---	19,700	21,550	26,400	---	---	---	---	---	---	24,000
	---	21,500	19,107	21,775	28,265	30,082	31,529	46,825	43,667	13,633	25,780	27,420
	---	2,121	4,780	6,274	10,936	19,141	6,109	22,566	10,017	11,936	9,404	14,197
	0	2	15	16	17	11	7	8	3	3	5	87
W S Central	---	---	21,800	---	---	---	---	39,000	---	---	---	25,500
	---	16,900	22,323	24,908	29,471	23,050	26,800	39,676	22,917	31,680	35,000	27,340
	---	5,425	5,462	8,067	9,209	16,476	13,167	11,804	13,057	7,427	17,059	12,015
	0	3	26	13	7	10	12	17	6	5	3	102
E N Central	---	18,750	21,750	24,400	28,000	30,100	30,800	31,600	33,500	29,000	30,600	27,000
	---	19,072	21,647	23,634	28,540	30,472	34,295	31,879	35,306	28,932	31,393	28,103
	---	4,472	4,983	7,665	8,866	15,273	15,748	10,284	15,333	9,420	14,033	11,801
	0	18	74	71	57	43	44	62	36	19	15	439
E S Central	---	---	---	---	---	---	---	---	---	---	---	25,000
	---	21,767	16,133	21,333	27,743	35,714	27,527	25,989	27,875	37,200	34,550	26,351
	---	2,732	4,184	5,855	15,088	14,509	8,609	13,320	8,815	7,045	6,859	11,274
	0	3	9	9	7	7	11	9	4	4	2	65
Mid Atlantic	---	---	21,050	24,500	27,950	29,150	32,000	34,000	33,000	32,450	---	26,500
	---	16,482	20,851	24,776	27,964	29,915	34,830	32,902	35,157	32,695	25,583	28,476
	---	3,984	6,623	6,021	11,144	11,160	13,531	12,991	19,802	13,441	7,543	12,555
	0	11	74	68	56	40	61	53	37	20	12	432
So Atlantic	---	---	18,800	23,800	30,000	28,200	34,000	34,000	35,000	---	---	27,500
	---	15,975	19,903	22,981	29,320	30,322	34,937	32,998	35,976	42,400	28,586	29,033
	---	2,736	6,319	7,609	8,783	8,674	10,028	10,408	21,315	16,580	10,057	12,257
	0	8	30	37	30	18	30	43	21	6	7	230
New England	---	---	20,600	---	---	36,500	37,000	29,300	---	---	---	25,500
	---	15,500	20,295	22,075	25,879	36,753	34,680	30,788	36,900	32,400	33,800	29,197
	---	4,243	3,610	8,695	13,128	11,858	15,108	11,526	17,351	9,820	15,839	12,819
	0	2	21	12	14	17	20	17	6	8	2	119
TOTAL	---	18,350	20,500	24,000	28,100	28,800	31,000	33,900	32,450	31,050	28,300	26,100
	---	18,039	20,470	23,746	27,557	30,011	33,175	33,403	34,829	32,253	29,049	27,935
	---	3,981	6,224	6,891	10,587	13,150	13,010	12,404	17,850	12,137	10,853	12,208
	0	56	294	265	212	171	212	226	124	74	57	1,691

Table-1.5.3

SALARIES OF FULL-TIME EMPLOYED Ph.D CHEMISTS by GEOGRAPHIC REGION and YEARS SINCE BACHELOR'N DEGREE

REGION	YEARS SINCE BS											
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL
Pacific	---	---	25,000	28,000	32,000	36,000	36,000	38,000	40,000	36,000	31,750	32,000 -Median
	---	---	24,432	27,599	32,093	37,112	36,568	37,292	37,648	34,539	32,885	33,210 -Mean
	---	---	7,929	8,481	9,940	15,170	11,931	12,194	16,680	14,564	14,167	12,723 -Std Dev
	0	0	37	100	101	77	68	61	42	31	20	537 -Count
Mountain	---	---	---	25,650	25,900	29,650	32,000	30,600	---	---	---	28,300
	---	---	23,229	25,811	26,492	30,588	34,983	31,237	35,579	45,500	29,143	29,978
	---	---	4,415	9,452	11,315	6,558	18,924	7,395	9,332	26,726	18,212	13,262
	0	0	14	36	39	24	29	19	14	8	7	190
W N Central	---	---	24,600	25,600	27,500	30,000	29,400	30,000	33,700	30,050	---	28,000
	---	---	21,937	25,062	27,560	31,223	31,634	30,357	37,670	34,206	29,608	29,517
	---	---	7,217	6,664	9,084	12,906	13,625	13,319	17,831	17,433	7,674	12,495
	0	0	27	50	67	61	44	37	30	18	13	347
W S Central	---	---	26,400	26,050	30,250	30,000	35,450	36,000	40,500	---	33,900	30,000
	---	---	25,677	25,373	29,653	31,811	35,248	35,856	42,281	48,245	33,590	31,702
	---	---	4,994	9,476	9,957	9,823	14,100	15,179	15,169	16,961	19,143	13,229
	0	0	35	66	70	35	56	43	16	11	21	353
E N Central	---	---	26,000	28,100	30,000	32,900	35,200	38,500	37,250	42,000	30,550	31,100
	---	8,100	23,588	28,641	31,164	33,868	35,859	39,250	40,240	44,033	34,887	33,740
	---	---	7,588	8,744	11,582	12,357	10,877	14,886	14,185	19,800	19,518	13,731
	0	1	84	179	199	154	141	110	90	72	46	1,076
E S Central	---	---	25,000	24,600	29,800	29,000	34,650	34,000	36,650	---	---	29,000
	---	---	22,068	24,773	30,253	30,883	36,723	37,144	38,441	35,090	32,438	30,843
	---	---	7,266	9,080	9,441	10,930	19,146	13,582	15,449	11,138	16,033	13,064
	0	0	19	45	47	35	26	16	22	10	8	228
Mid Atlantic	---	---	26,450	28,800	35,000	35,000	38,000	40,000	41,850	40,000	33,300	34,000
	---	---	24,452	28,098	34,646	34,876	41,196	43,301	46,359	44,188	36,355	36,165
	---	---	7,981	8,416	16,673	14,152	17,371	17,113	23,907	23,444	21,120	17,639
	0	0	106	215	255	189	163	145	110	77	71	1,331
So Atlantic	---	---	24,000	25,900	30,000	32,000	36,050	40,000	41,800	46,000	33,300	31,250
	---	---	22,370	26,141	29,367	32,050	36,625	39,794	40,975	48,960	33,972	33,047
	---	---	5,854	7,269	11,799	12,142	13,366	14,296	28,307	25,809	13,030	15,827
	0	0	61	149	171	140	126	106	71	43	39	906
New England	---	---	25,000	26,400	31,250	30,700	36,200	38,750	40,000	---	32,000	30,000
	---	---	22,100	25,619	32,427	32,337	36,155	39,693	39,781	32,979	33,682	32,097
	---	---	5,550	8,279	13,472	11,762	12,659	18,817	20,087	8,527	14,199	13,693
	0	0	21	77	56	70	49	30	27	14	17	361
TOTAL	---	---	25,500	27,000	30,800	32,800	36,000	38,000	39,950	40,000	32,000	31,300
	---	8,100	23,618	27,009	31,336	33,425	37,007	39,035	41,318	42,507	34,277	33,395
	---	---	7,101	8,447	12,922	12,854	14,520	15,394	20,769	21,158	17,589	15,045
	0	1	404	917	1,005	785	702	567	422	284	242	5,329

SALARIES OF FULL-TIME EMPLOYED B.S. CHEMISTS by SELECTED STATES and YEARS SINCE BACHELOR'S DEGREE

STATE	YEARS SINCE BS												
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL	
California	---	17,050	20,800	21,000	27,050	30,250	30,600	30,000	---	---	---	25,300	-Median
	17,271	17,350	21,231	23,105	26,995	31,300	32,224	35,867	44,231	34,586	---	28,032	-Mean
	3,395	6,855	6,086	11,166	5,295	8,248	11,178	12,644	23,346	13,840	---	12,865	-Std Dev
	7	26	35	19	20	24	21	27	13	14	0	206	-Count
Texas	---	---	22,600	---	---	---	30,000	31,000	---	---	---	25,000	
	17,000	17,762	21,900	26,445	29,936	29,470	31,378	29,540	25,233	76,000	58,700	26,871	
	4,243	2,847	5,124	6,887	7,352	9,103	12,444	11,644	14,880	---	---	10,769	
	5	13	16	11	11	10	18	15	6	1	1	107	
Illinois	---	17,200	19,500	22,250	---	---	29,900	29,500	31,500	---	---	23,500	
	17,833	17,757	18,355	22,961	27,908	28,917	30,255	31,675	35,350	26,667	---	25,433	
	4,537	3,629	6,751	5,772	7,554	10,436	16,026	15,131	22,211	28,095	---	13,602	
	3	23	33	18	13	12	20	20	18	3	0	163	
Michigan	---	18,600	23,250	27,250	30,000	---	---	---	---	---	---	24,900	
	15,683	16,816	20,111	26,650	31,720	28,100	36,922	26,033	61,250	29,120	---	28,618	
	7,727	6,944	7,805	9,063	8,418	2,458	11,558	16,376	60,786	16,899	---	22,045	
	6	19	18	16	15	4	9	9	8	5	0	109	
Ohio	---	18,250	17,850	---	26,600	30,700	31,000	31,300	---	---	---	26,000	
	18,338	18,996	18,396	22,477	26,629	32,000	32,694	30,294	39,757	38,383	---	26,836	
	4,263	5,263	6,449	3,899	5,005	5,706	15,362	10,989	12,194	8,009	---	10,684	
	8	26	28	13	24	19	16	31	14	6	0	185	
New Jersey	---	17,000	22,000	25,000	30,150	28,600	34,300	29,850	35,500	30,000	---	25,500	
	14,743	16,741	21,846	23,809	29,117	30,460	34,915	31,275	40,038	35,583	---	28,149	
	7,463	2,429	4,028	9,491	6,072	9,282	11,163	17,173	21,101	17,582	---	13,115	
	7	27	39	23	24	25	26	24	16	24	0	235	
New York	---	17,100	18,500	22,200	28,100	25,550	32,700	30,750	32,500	---	---	24,700	
	15,071	17,050	18,424	24,318	28,343	31,010	35,818	31,207	34,753	57,333	44,200	27,706	
	2,027	4,642	6,514	7,395	8,487	16,382	13,603	10,196	9,466	55,229	---	17,016	
	7	30	29	22	21	20	22	30	15	9	1	206	
Pennsylvania	---	16,150	18,500	23,950	26,400	27,200	32,000	31,950	29,700	---	---	25,000	
	17,388	15,822	17,893	24,761	23,483	31,293	32,330	32,690	32,719	35,385	---	26,387	
	4,139	5,481	7,408	4,897	10,141	10,524	6,947	7,513	19,257	16,751	---	11,447	
	8	18	29	28	18	15	23	20	16	13	0	188	
All other states	15,600	16,000	20,000	23,500	28,500	33,150	33,400	30,500	35,100	30,500	---	25,000	
	15,346	16,102	20,361	23,616	28,234	43,379	34,040	31,955	39,885	31,279	---	28,331	
	3,876	4,314	5,757	6,475	9,278	27,614	10,418	14,069	28,500	17,381	---	17,113	
	35	132	202	122	87	132	95	127	74	39	0	1,045	

Table-1.6.2

SALARIES OF FULL-TIME EMPLOYED MS CHEMISTS by SELECTED STATES and YEARS SINCE BACHELOR'S DEGREE

STATE	YEARS SINCE BS										TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40		
California	---	---	19,900	25,350	28,600	23,000	---	---	---	---	25,000	-Median
	---	19,050	19,587	26,014	22,318	24,961	31,050	38,492	28,740	36,933	25,827	-Mean
	---	2,408	9,718	5,900	12,372	9,531	5,901	13,541	5,425	12,669	11,148	-Std Dev
	0	4	30	22	17	18	10	12	5	6	124	-Count
Texas	---	---	24,500	---	---	---	---	---	---	---	25,500	
	---	16,900	23,327	23,667	32,120	11,900	32,150	42,356	23,920	28,200	27,191	
	---	5,425	6,362	10,305	8,423	16,570	10,707	10,550	14,337	3,818	12,771	
	0	3	15	6	5	5	8	9	5	2	58	
Illinois	---	---	21,600	24,400	---	---	---	31,000	---	---	26,000	
	---	18,800	21,589	24,294	27,485	31,071	36,400	31,783	31,846	31,625	27,894	
	---	5,392	4,610	9,003	9,439	8,860	26,804	7,244	9,450	7,294	12,127	
	0	6	27	17	13	14	13	18	13	4	125	
Michigan	---	---	21,000	24,800	---	---	---	---	---	---	26,850	
	---	18,933	21,260	24,216	29,579	28,813	39,975	33,950	51,200	29,500	28,550	
	---	3,386	3,463	7,954	12,121	31,673	17,409	8,763	17,123	7,778	15,166	
	0	3	15	19	14	8	4	8	5	2	78	
Ohio	---	---	22,000	23,000	29,000	---	30,800	34,000	---	---	28,000	
	---	19,357	21,860	21,445	28,689	33,118	31,736	32,861	36,008	27,700	28,496	
	---	5,230	7,239	6,616	7,204	9,072	5,403	12,245	17,845	12,155	10,918	
	0	7	20	20	19	11	22	28	13	10	150	
New Jersey	---	---	24,000	23,500	28,000	27,900	33,000	33,800	36,400	---	27,900	
	---	18,525	24,614	25,211	27,381	27,041	36,207	29,461	37,100	34,933	29,365	
	---	2,861	6,449	6,700	7,711	9,507	10,387	14,327	19,860	8,474	11,522	
	0	4	22	28	27	17	29	18	16	6	167	
New York	---	---	20,100	22,100	---	---	29,000	33,500	---	---	25,000	
	---	12,200	19,472	23,917	26,757	29,863	30,700	33,435	32,400	25,467	26,809	
	---	3,342	6,029	6,097	10,213	4,769	10,181	14,407	27,319	5,101	12,667	
	0	3	25	18	14	8	23	17	11	6	125	
Pennsylvania	---	---	20,100	25,150	26,300	30,000	---	34,750	---	---	26,250	
	---	17,650	19,063	24,927	30,140	33,200	40,944	35,839	35,080	36,438	29,216	
	---	3,400	6,236	5,191	16,536	14,515	24,748	9,676	8,118	18,852	13,953	
	0	4	27	22	15	15	9	18	10	8	128	
Others	---	18,500	20,000	23,000	26,400	30,000	30,600	31,550	32,300	30,200	26,000	
	---	18,041	19,446	22,909	27,325	31,822	31,800	32,414	35,034	32,010	27,606	
	---	3,462	4,955	6,792	10,361	11,866	11,696	12,942	18,552	13,662	12,050	
	0	22	114	114	91	79	96	100	47	31	694	
TOTAL	---	18,350	20,500	24,000	28,000	28,800	31,000	33,700	32,300	30,900	26,000	
	---	18,039	20,462	23,732	27,484	29,995	33,067	33,299	34,790	31,823	27,848	
	---	3,981	6,215	6,882	10,547	13,096	13,002	12,407	17,783	12,617	12,242	
	0	56	295	266	215	175	214	228	125	75	1,649	

Table-1.6.3

SALARIES OF FULL-TIME EMPLOYED Ph.D. CHEMISTS by SELECTED STATES and YEARS SINCE BACHELOR'S DEGREE

STATE	YEARS SINCE BS											
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL
California	---	---	26,000	28,250	32,000	36,000	35,700	39,250	41,100	40,000	30,000	32,200 -Median
	---	---	24,788	28,141	32,490	37,798	37,790	38,584	39,744	35,925	33,924	33,953 -Mean
	---	---	8,389	7,818	9,894	16,079	11,640	12,753	17,057	13,867	13,750	12,889 -Std Dev
	0	0	32	86	82	65	52	50	32	24	17	440 -Count
Texas	---	---	27,100	23,900	30,500	30,000	35,450	38,000	---	---	38,500	30,850
	---	---	25,819	24,253	29,606	32,272	34,068	40,896	41,450	59,900	34,594	32,008
	---	---	5,793	10,174	10,600	10,255	13,229	11,685	15,599	16,509	20,597	13,721
	0	0	21	40	51	18	38	23	10	5	16	222
Illinois	---	---	26,000	27,000	30,600	29,500	35,200	35,000	38,400	44,000	---	30,200
	---	---	25,931	27,050	31,475	32,229	34,623	34,961	42,225	46,264	35,877	33,728
	---	---	3,787	5,816	13,565	13,728	9,554	14,116	16,968	15,834	16,855	13,688
	0	0	16	54	52	35	35	36	28	25	13	294
Michigan	---	---	27,500	32,000	29,150	36,050	38,100	44,000	40,850	---	---	33,050
	---	---	25,059	30,719	31,671	34,880	38,057	43,356	42,550	41,000	31,685	34,644
	---	---	7,574	7,923	12,980	12,362	13,328	13,624	15,735	30,849	12,106	13,852
	0	0	27	37	38	30	37	27	18	7	13	234
Ohio	---	---	25,600	29,100	31,900	33,850	36,000	38,250	35,000	43,000	---	32,000
	---	8,100	23,131	31,120	30,890	33,467	35,918	41,905	37,718	46,705	30,600	33,673
	---	---	7,972	10,975	7,511	9,634	9,075	15,230	11,621	15,693	8,415	11,814
	0	1	29	49	58	48	40	20	33	21	11	310
New Jersey	---	---	27,000	30,700	35,000	40,000	42,600	40,000	47,000	46,000	33,850	36,000
	---	---	26,386	30,276	37,404	39,627	43,948	45,469	50,478	47,464	41,596	38,722
	---	---	6,645	7,357	22,638	12,577	14,776	16,642	18,020	19,589	28,956	18,352
	0	0	43	74	98	49	46	39	36	28	24	437
New York	---	---	26,000	28,000	33,000	34,000	36,600	40,000	41,000	41,000	30,800	33,000
	---	---	23,081	27,495	32,269	33,132	39,226	42,324	43,461	44,532	31,903	34,725
	---	---	8,830	8,291	10,883	14,897	16,894	15,638	19,711	31,805	15,723	16,533
	0	0	36	77	97	84	73	62	41	28	30	528
Pennsylvania	---	---	25,200	26,950	34,000	31,000	38,250	40,500	39,000	35,600	40,000	32,150
	---	---	23,200	26,305	33,983	33,334	41,589	42,755	45,467	39,362	36,812	35,190
	---	---	8,400	9,257	11,792	13,581	20,387	19,572	32,792	12,857	14,820	18,025
	0	0	27	64	60	56	44	44	33	21	17	366
Others	---	---	24,300	25,800	29,900	30,400	35,500	36,000	38,200	38,000	31,000	30,000
	---	---	22,367	25,675	29,614	32,106	35,644	36,496	39,132	40,758	33,487	31,809
	---	---	6,183	8,078	11,328	11,787	14,380	14,900	21,289	21,875	16,221	14,380
	0	0	177	443	476	407	342	268	195	127	107	2,542

Table-2.1.0

FULL-TIME EMPLOYED CHEMISTS IN INDUSTRY BY HIGHEST DEGREE AND YEARS SINCE BS

HIGHEST DEGREE	YEARS SINCE BS 0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	TOTAL	
Bachelors	18,675	19,600	24,550	28,500	33,500	35,000	40,000	40,000	44,000	43,200	33,000	-75th %-ile
	17,400	17,200	21,000	24,000	28,100	30,000	32,900	31,250	35,000	32,000	25,200	-Median
	14,625	15,400	18,350	21,000	23,500	25,200	28,000	26,000	27,300	28,400	19,700	-25th %-ile
	16,621	17,762	21,108	24,713	28,282	31,213	35,014	32,160	40,001	37,738	27,538	-Mean
	4,407	4,294	5,832	7,148	8,492	9,289	11,681	12,393	28,354	23,498	14,150	-Std Dev
	68	253	329	215	187	175	189	230	139	93	1,878	-Count
Masters	-a-	21,750	24,500	29,500	36,000	40,000	41,000	40,000	42,125	40,000	35,700	
	-b-	19,200	21,600	25,000	30,000	33,000	33,600	35,000	35,000	31,050	28,500	
	-c-	17,100	19,225	22,125	25,500	27,000	28,800	29,000	28,000	27,500	22,825	
	-d-	19,351	21,854	25,856	30,268	33,767	36,601	35,226	37,944	32,704	30,189	
	-e-	3,477	5,790	5,661	9,881	13,746	13,662	11,766	18,687	12,860	12,418	
	0	37	206	174	136	109	137	167	80	52	1,098	
Doctorate	-a-	-a-	29,000	34,100	41,325	45,000	50,000	53,275	54,400	59,000	44,000	
	-b-	-b-	26,800	30,000	36,000	39,000	42,000	42,900	44,000	46,000	36,000	
	-c-	-c-	25,000	27,000	31,000	33,600	36,000	36,125	37,000	36,100	29,500	
	-d-	-d-	26,437	30,783	36,738	40,019	43,500	45,259	47,565	49,753	38,221	
	-e-	-e-	5,688	6,892	9,866	13,226	14,549	15,633	20,599	24,915	14,897	
	0	0	262	529	524	351	319	286	205	135	2,611	
TOTAL	18,675	20,000	26,600	32,475	39,200	42,000	45,300	45,000	50,000	50,700	39,900	
All Cases	17,400	17,500	23,800	28,100	34,000	35,200	38,000	37,000	39,800	38,750	31,000	
	14,625	15,500	20,000	24,200	28,100	29,400	31,000	30,000	31,000	30,000	24,500	
	16,621	17,965	23,053	28,427	33,832	36,519	39,548	38,394	43,270	42,596	33,052	
	4,407	4,226	6,242	7,281	10,280	12,973	14,120	14,924	23,451	23,693	15,019	
	68	290	797	918	847	635	645	683	424	280	5,587	

SALARIES OF FULL-TIME EMPLOYED CHEMISTS IN INDUSTRY
by WORK FUNCTION and HIGHEST DEGREE

WORK FUNCTION	HIGHEST DEGREE Bachelors	Masters	Doctorate	TOTAL	
R&D Mgmt	34,000	37,000	43,000	40,000	-Median
	36,182	37,437	45,873	42,813	-Mean
	16,976	13,068	16,683	16,814	-Std Dev
	220	172	779	1,171	-Count
Basic Research	20,400	24,700	33,500	30,000	
	22,120	25,435	34,665	31,184	
	7,166	7,796	10,508	10,946	
	103	95	425	623	
Applied R&D	24,000	27,200	32,000	29,100	
	25,051	27,905	33,168	29,820	
	9,020	8,454	9,824	10,015	
	622	421	1,127	2,170	
Gen Mgmt	36,000	37,500	43,000	40,000	
	39,110	41,734	50,639	43,301	
	26,090	19,930	28,900	26,274	
	194	90	130	414	
Marketing	30,000	30,250	38,750	31,700	
	29,519	32,511	38,673	32,360	
	11,167	16,003	11,535	13,231	
	206	114	90	410	
Prod & QC	22,750	26,000	32,000	24,000	
	23,794	26,122	32,789	25,480	
	9,748	8,417	11,141	10,077	
	382	138	76	596	
Forensic	21,500	27,500	29,200	24,050	
	22,891	26,413	31,096	24,979	
	7,543	6,766	10,726	8,449	
	103	39	26	168	
Writing	27,400	25,000	---	27,400	
	26,000	24,713	36,164	27,612	
	9,641	7,002	14,072	10,572	
	17	23	11	51	
Data Proc	---	---	---	---	
	26,500	25,900	28,800	27,327	
	707	5,693	5,995	5,117	
	2	4	5	11	
Consulting	21,500	27,250	43,500	33,150	
	23,344	28,619	45,561	35,118	
	11,790	6,983	18,520	17,479	
	16	16	28	60	
Other	25,000	25,300	39,000	29,800	
	27,010	25,107	41,836	32,169	
	10,640	10,919	15,737	14,942	
	31	28	37	96	
TOTAL	25,800	28,500	36,000	31,000	
	27,765	30,293	38,251	33,233	
	14,211	12,436	15,182	15,150	
	1,896	1,140	2,734	5,770	

Table-2.1.2

SALARIES OF FULL-TIME EMPLOYED CHEMISTS IN INDUSTRY
BY HIGHEST DEGREE AND SELECTED STATES OF RESIDENCE

STATE	HIGHEST DEGREE Bachelors	Masters	Doctorate	TOTAL	
California	26,000	25,700	36,000	30,700	-Median
	28,572	27,864	37,136	32,509	-Mean
	13,042	11,564	13,773	13,855	-Std Dev
	163	75	214	452	-Count
Texas	25,250	29,200	37,400	31,550	
	27,462	30,721	37,319	32,605	
	11,029	12,738	13,880	13,451	
	86	43	111	240	
Illinois	24,000	27,500	32,000	29,000	
	26,561	30,418	36,100	31,513	
	13,910	12,523	14,258	14,359	
	135	89	167	391	
Michigan	25,000	27,900	37,000	31,550	
	29,016	29,815	38,659	33,736	
	22,596	15,996	13,352	17,872	
	101	68	151	320	
Ohio	26,000	29,000	35,000	30,400	
	27,653	29,565	36,727	31,976	
	10,696	11,301	11,643	11,972	
	154	114	198	466	
New Jersey	25,500	28,900	37,000	32,000	
	27,824	30,382	40,006	34,402	
	12,139	11,662	15,640	14,994	
	217	148	361	726	
New York	25,600	26,650	37,100	32,250	
	29,265	29,136	40,483	35,154	
	17,836	13,214	17,603	17,913	
	172	92	294	558	
Pennsylvania	25,800	30,000	37,000	31,000	
	27,171	31,548	39,840	33,893	
	11,544	13,840	19,223	16,887	
	167	107	231	505	
Others	26,000	29,000	35,450	31,000	
	30,263	31,022	37,509	33,827	
	18,569	11,641	14,365	15,862	
	743	419	1,038	2,200	
TOTAL	25,800	28,500	36,000	31,000	
	28,838	30,361	38,231	33,572	
	16,065	12,348	15,121	15,588	
	1,938	1,155	2,765	5,858	

FULL-TIME EMPLOYED INDUSTRIAL CHEMISTS BY TOTAL NUMBER SUPERVISED AND DEGREE

PROF + TECH +OTH	HIGHEST DEGREE Bachelors	Masters	Doctorate	TOTAL	
0	20,000	23,050	30,000	24,000	-Median
	21,402	23,728	32,569	24,971	-Mean
	8,151	7,606	12,857	10,607	-Std Dev
	1,031	542	573	2,146	-Count
1-2	23,000	26,350	32,000	28,700	
	24,278	27,018	33,243	29,400	
	9,171	8,342	10,214	10,403	
	645	404	1,110	2,159	
3-7	25,350	28,500	35,000	30,500	
	26,919	29,115	36,323	31,559	
	10,040	9,796	11,160	11,355	
	482	297	622	1,401	
8-12	28,200	32,500	39,600	35,000	
	29,404	33,008	40,836	35,389	
	9,635	10,303	12,566	12,328	
	170	101	231	502	
13-17	32,750	35,000	40,000	37,000	
	33,276	35,556	40,693	37,481	
	11,895	12,518	11,463	12,221	
	68	45	116	229	
18-22	30,900	38,050	42,000	39,000	
	33,711	34,200	40,443	37,248	
	11,974	11,739	13,963	13,333	
	46	20	70	136	
23-32	34,500	38,300	45,600	42,750	
	35,923	37,221	42,567	43,123	
	10,552	16,552	11,783	13,506	
	40	28	102	170	
33-47	37,000	42,900	50,600	46,000	
	39,548	44,555	51,093	46,833	
	14,880	15,612	12,248	14,460	
	33	31	73	137	
48-67	40,000	41,800	55,000	50,000	
	38,884	46,563	60,158	51,752	
	14,606	14,727	21,801	20,867	
	25	19	50	94	
68-99	---	---	62,350	51,700	
	38,300	41,769	59,037	51,117	
	17,189	13,628	19,941	20,387	
	14	13	38	65	
>= 100	52,000	55,000	73,000	66,000	
	65,336	70,409	75,123	71,275	
	49,228	30,145	26,982	35,840	
	42	23	70	135	
TOTAL	23,400	27,000	35,000	29,200	
	25,618	28,569	37,391	31,258	
	12,958	12,185	14,822	14,658	
	2,596	1,523	3,055	7,174	

Table-2.1.4

FULL-TIME EMPLOYED INDUSTRIAL CHEMISTS BY PROFESSIONAL AND TECHNICAL SUBORDINATES AND DEGREE

PROF + TECH SUBORDINATES	HIGHEST DEGREE: Bachelors	Masters	Doctorate	TOTAL	
0	20,200	23,600	30,200	24,000	-Median
	22,173	24,366	33,180	25,704	-Mean
	9,236	9,671	13,082	11,490	-Std Dev
	1,031	542	573	2,363	-Count
1-2	23,000	26,200	32,000	28,600	
	24,034	26,896	33,093	29,212	
	8,783	8,282	9,944	10,167	
	634	396	1,082	2,112	
3-7	26,000	29,000	35,100	31,000	
	27,067	30,417	36,641	32,040	
	9,353	10,742	12,167	11,777	
	478	293	620	1,391	
8-12	30,000	32,750	39,700	35,000	
	30,725	32,951	40,730	35,820	
	11,571	11,813	10,371	11,996	
	167	92	227	486	
13-17	32,750	36,000	41,200	38,200	
	32,767	36,356	42,160	38,553	
	10,506	11,012	13,046	12,680	
	58	41	118	217	
18-22	35,000	40,000	44,250	41,300	
	36,632	40,300	42,903	40,701	
	12,644	9,989	15,058	13,895	
	37	20	72	129	
23-32	40,200	41,450	46,000	44,600	
	40,655	39,661	47,053	44,369	
	13,623	15,537	10,974	12,847	
	31	28	922	151	
33-47	43,000	42,300	51,000	49,500	
	46,553	42,814	52,559	49,661	
	17,225	11,590	13,544	14,348	
	19	21	70	110	
48-67	49,000	---	60,000	52,000	
	48,348	54,636	62,254	57,116	
	16,863	22,726	22,773	21,914	
	23	14	46	83	
68-99	---	---	62,750	60,000	
	46,430	46,171	59,747	55,273	
	26,264	12,908	20,398	21,439	
	10	7	34	51	
>= 100	---	---	75,000	75,000	
	96,577	73,185	78,020	80,222	
	74,620	25,920	27,981	38,979	
	13	13	55	81	
TOTAL	23,400	27,000	35,000	29,200	
	25,618	28,569	37,391	31,258	
	12,958	12,185	14,822	14,658	
	2,596	1,523	3,055	7,174	

SALARIES OF FULL-TIME EMPLOYED B.S. CHEMISTS IN INDUSTRY by WORK FUNCTION and YEARS SINCE BACHELOR'S DEGREE

WORK FUNCTION	YEARS SINCE BS 0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	TOTAL	
R&D Mgmt	---	---	25,000	---	34,000	34,700	35,500	37,400	44,000	40,000	34,000	-Median
	20,667	22,550	23,884	26,236	34,274	36,259	38,356	35,609	53,028	40,214	36,182	-Mean
	2,517	12,280	4,417	10,187	7,140	9,144	11,190	9,674	35,874	15,095	16,976	-Std Dev
	3	6	19	14	35	29	36	32	25	21	220	-Count
Basic Research	---	17,800	20,000	---	---	---	---	---	---	---	20,400	
	17,088	18,269	19,714	23,255	27,731	26,414	32,833	19,150	43,200	41,600	22,120	
	2,655	3,185	5,579	4,401	5,818	3,147	6,853	10,162	---	---	7,166	
	8	29	21	11	13	7	6	6	1	1	103	
Applied R&D	17,400	17,000	21,000	23,250	26,000	28,400	31,000	31,500	34,600	30,500	24,000	
	16,610	17,581	20,904	23,659	27,313	28,904	32,530	31,449	33,503	30,460	25,051	
	4,064	3,017	6,271	7,019	8,823	6,333	9,096	7,742	9,078	10,592	9,020	
	29	89	142	76	52	50	57	63	39	25	622	
Gen Mgmt	---	---	---	26,600	32,800	36,000	45,500	36,050	46,000	38,900	36,000	
	18,533	16,567	25,283	28,994	28,519	36,816	46,693	37,415	54,992	50,036	39,110	
	5,662	2,248	5,943	9,698	8,948	12,026	14,601	20,499	47,487	39,784	26,090	
	3	9	6	16	16	45	27	26	24	22	194	
Marketing	---	17,900	22,100	28,000	31,000	32,000	32,900	31,000	36,000	---	30,000	
	18,833	19,887	21,068	27,506	29,636	33,790	33,250	31,155	34,878	40,617	29,519	
	3,686	6,492	9,343	5,713	6,379	9,692	9,136	13,532	8,758	14,653	11,167	
	3	23	25	17	25	21	20	33	27	12	206	
Prod & QC	---	17,000	21,000	23,300	24,650	27,500	30,000	30,000	26,000	---	22,750	
	17,136	16,925	21,263	23,569	22,850	28,713	30,182	31,697	30,560	28,136	23,794	
	4,354	4,040	3,888	6,193	9,047	6,816	9,106	11,742	21,110	11,762	9,748	
	14	76	78	55	26	30	33	39	20	11	382	
Forensic	---	---	19,200	22,150	27,000	---	---	29,900	---	---	21,500	
	13,529	18,415	19,450	24,206	25,807	25,875	30,950	27,663	30,500	14,300	22,891	
	6,241	4,017	5,403	5,951	5,593	2,927	10,785	7,477	2,121	990	7,543	
	7	13	22	16	15	4	6	16	2	2	103	
Writing	---	---	---	---	---	---	---	---	---	---	27,400	
	---	---	---	27,000	33,000	28,500	24,600	17,233	23,633	29,350	26,000	
	---	---	---	---	14,422	1,323	566	15,413	8,489	2,758	9,641	
	0	0	0	1	3	3	2	3	3	2	17	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	26,000	27,000	---	---	---	---	26,500	
	---	---	---	---	---	---	---	---	---	---	707	
	0	0	0	0	1	1	0	0	0	0	2	
Consulting	---	---	---	---	---	---	---	---	---	---	21,500	
	19,200	15,333	19,900	30,000	---	23,933	---	32,900	40,500	0	23,344	
	---	5,508	1,931	---	---	9,551	---	2,687	14,849	---	11,790	
	1	3	3	1	0	3	0	2	2	1	16	
Other	---	---	---	---	---	---	---	---	---	---	25,000	
	16,500	17,225	22,325	24,800	23,250	30,825	41,500	30,250	37,075	---	27,010	
	1,273	2,871	2,196	8,106	6,010	3,250	20,365	4,573	17,102	---	10,640	
	2	4	4	5	2	4	2	4	4	0	31	
TOTAL	17,450	17,200	21,000	24,000	28,150	31,500	33,000	31,250	35,500	32,000	25,800	
	16,847	17,765	21,093	24,610	28,353	32,083	35,299	31,937	40,200	37,449	27,765	
	4,253	4,305	5,861	7,124	8,516	9,386	11,695	12,221	27,745	23,453	14,211	
	70	252	320	212	188	197	189	224	147	97	1,896	

Table-2.2.2

SALARIES OF FULL-TIME EMPLOYED M.S. CHEMISTS IN INDUSTRY by WORK FUNCTION and YEARS SINCE BACHELOR'S DEGREE

	YEARS SINCE BS											
WORK FUNCTION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL
R&D Mgmt	---	---	---	---	36,000	37,750	40,500	38,000	41,500	---	---	37,000 -Median
	---	---	29,117	28,807	35,261	35,614	42,031	38,244	44,355	36,750	41,333	37,437 -Mean
	---	---	5,313	4,905	7,718	13,695	17,909	10,478	13,915	18,265	11,015	13,068 -Std Dev
	0	0	12	14	23	22	29	41	20	8	3	172 -Count
Basic Research	---	---	19,900	25,000	---	---	---	---	---	---	---	24,700
	---	18,650	19,515	25,863	29,780	30,845	33,663	40,900	30,750	26,000	24,300	25,435
	---	3,145	4,248	3,407	5,847	6,556	7,971	9,247	6,500	0	2,722	7,796
	0	6	33	19	5	11	8	4	4	2	3	95
Applied R&D	---	---	22,000	25,000	29,000	29,150	31,000	33,600	32,000	30,000	28,300	27,200
	---	19,207	21,915	24,770	28,791	30,431	32,042	33,303	31,117	32,580	29,426	27,905
	---	2,027	5,716	5,430	9,555	6,405	7,776	6,689	8,837	9,717	9,893	8,454
	0	14	86	67	55	26	50	61	23	20	19	421
Gen Mgmt	---	---	---	---	---	40,000	---	45,650	---	---	---	37,500
	---	---	28,100	25,614	33,233	42,463	47,021	49,128	51,663	42,840	29,200	41,734
	---	---	7,411	5,521	14,781	21,377	21,803	18,388	24,652	15,128	20,653	19,930
	0	0	3	7	12	19	14	18	8	5	4	90
Marketing	---	---	22,500	25,500	---	---	---	37,000	---	---	---	30,250
	---	---	23,135	28,490	33,755	36,017	40,633	35,213	45,338	27,120	37,500	32,511
	---	---	5,382	7,070	9,021	18,454	11,851	16,412	29,573	16,043	15,025	16,003
	0	0	26	20	11	12	9	15	13	5	3	114
Prod & QC	---	---	19,700	25,200	24,100	---	---	31,600	---	---	---	26,000
	---	18,900	20,190	25,444	25,394	26,430	36,033	31,340	30,688	31,525	25,133	26,122
	---	4,725	5,313	5,457	10,711	5,594	10,447	6,818	5,812	6,556	7,730	8,417
	0	13	21	32	17	10	12	15	8	4	6	138
Forensic	---	---	---	---	---	---	---	---	---	---	---	27,500
	---	18,500	21,379	23,000	27,783	29,750	31,071	31,020	---	31,500	27,500	26,413
	---	---	4,260	---	7,826	3,182	5,952	7,009	---	2,121	---	6,766
	0	1	14	1	6	2	7	5	0	2	1	39
Writing	---	---	---	---	---	---	---	---	---	---	---	25,000
	---	22,800	18,900	24,933	32,000	27,550	26,180	26,333	22,500	19,467	---	24,713
	---	---	3,960	3,118	---	3,579	3,716	3,215	---	18,254	---	7,002
	0	1	2	3	1	4	5	3	1	3	0	23
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	17,500	---	---	30,000	28,050	---	---	---	25,900
	---	---	---	---	---	---	---	778	---	---	---	5,693
	0	0	0	1	0	0	1	2	0	0	0	4
Consulting	---	---	---	---	---	---	---	---	---	---	---	27,250
	---	---	24,500	27,633	29,500	32,400	---	---	42,000	31,100	---	28,619
	---	---	6,648	7,410	7,778	566	---	---	---	3,677	---	6,983
	0	0	6	3	2	2	0	0	1	2	0	16
Other	---	---	---	---	---	---	---	---	---	---	---	25,300
	---	24,100	17,950	27,067	30,200	28,800	33,100	24,833	21,500	---	---	25,107
	---	990	12,054	9,250	4,957	---	8,344	14,372	15,286	---	---	10,919
	0	2	4	6	3	1	2	6	4	0	0	28
TOTAL	---	19,200	21,700	25,200	30,000	33,000	33,300	35,000	35,000	30,900	29,000	28,500
	---	19,351	21,951	25,886	30,322	33,767	36,433	35,794	38,104	32,492	29,836	30,293
	---	3,477	5,881	5,667	9,934	13,746	13,742	11,968	18,353	12,896	11,305	12,436
	0	37	207	173	135	109	137	170	82	51	39	1,140

Table-2.2.3

SALARIES OF FULL-TIME EMPLOYED Ph.D. CHEMISTS IN INDUSTRY by WORK FUNCTION and YEARS SINCE BACHELOR'S DEGREE

WORK FUNCTION	YEARS SINCE BS											
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL
R&D Mgmt	---	---	29,500	35,000	39,300	44,000	46,000	50,000	50,300	50,000	41,500	43,000 -Median
	---	---	29,847	35,257	40,283	46,207	48,642	54,334	54,093	52,285	45,303	45,873 -Mean
	---	---	5,449	7,772	11,182	14,466	18,824	16,282	19,896	18,795	21,138	16,683 -Std Dev
	0	0	15	86	181	120	107	105	74	55	36	779 -Count
Basic Research	---	---	27,000	30,800	35,900	40,000	39,000	42,000	40,500	---	34,200	33,500
	---	---	26,457	31,282	36,230	38,702	40,043	42,821	41,709	39,878	36,219	34,665
	---	---	6,214	5,075	6,758	12,363	8,775	14,428	8,744	25,203	9,639	10,508
	0	0	75	112	76	56	21	38	22	9	16	425
Applied R&D	---	---	26,500	29,200	33,000	36,000	38,200	38,900	39,000	37,000	30,000	32,000
	---	---	26,115	29,246	33,537	35,453	39,090	37,973	39,352	42,338	30,275	33,168
	---	---	5,534	5,958	7,387	8,537	9,806	12,257	9,286	15,713	11,634	9,824
	0	0	161	255	197	127	124	96	65	39	63	1,127
Gen Mgmt	---	---	---	---	39,000	43,000	43,000	42,000	60,000	---	---	43,000
	---	---	---	35,464	42,576	45,794	47,004	44,429	68,719	67,738	64,422	50,639
	---	---	---	14,783	16,133	20,325	12,683	14,152	40,347	52,277	40,387	28,900
	0	0	0	14	17	17	27	17	16	13	9	130
Marketing	---	---	---	32,750	40,500	---	42,000	---	---	---	---	38,750
	---	---	25,925	32,456	38,447	37,700	40,494	46,145	45,433	34,625	43,183	38,673
	---	---	3,876	5,833	11,140	9,592	7,656	9,113	8,607	23,998	21,684	11,535
	0	0	4	16	15	11	17	11	6	4	6	90
Prod & QC	---	---	---	28,150	35,000	---	---	---	---	---	---	32,000
	---	---	26,280	27,879	34,844	29,650	44,414	36,125	35,350	32,800	44,950	32,789
	---	---	1,481	7,792	10,641	13,348	10,735	8,658	21,086	3,960	9,970	11,141
	0	0	5	24	16	8	7	8	4	2	2	76
Forensic	---	---	---	---	---	---	---	---	---	---	---	29,200
	---	---	26,550	26,957	31,100	32,200	46,175	35,500	0	---	---	31,096
	---	---	71	3,179	7,956	4,942	10,011	---	---	---	---	10,726
	0	0	2	7	7	4	4	1	1	0	0	26
Writing	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	35,450	---	15,650	---	46,067	42,500	44,000	36,164
	---	---	---	---	7,259	---	22,132	---	6,813	---	---	14,072
	0	0	0	0	4	0	2	0	3	1	1	11
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	26,350	25,600	33,150	---	---	---	---	---	---	28,800
	---	---	3,323	---	8,273	---	---	---	---	---	---	5,995
	0	0	2	1	2	0	0	0	0	0	0	5
Consulting	---	---	---	---	---	---	---	---	---	---	---	43,500
	---	---	---	32,175	40,800	41,000	64,000	36,750	47,580	66,750	40,100	45,561
	---	---	---	11,991	14,255	8,888	22,627	7,136	6,673	33,100	---	18,520
	0	0	0	4	5	3	2	4	5	4	1	28
Other	---	---	---	---	---	---	---	---	---	---	---	39,000
	---	---	27,500	31,417	33,567	34,740	45,575	44,129	40,450	55,771	---	41,836
	---	---	3,536	7,501	7,453	8,323	14,523	10,716	24,830	14,950	---	15,737
	0	0	2	3	3	5	4	7	6	7	0	37
TOTAL	---	---	26,800	30,000	36,000	39,100	42,000	43,000	44,000	46,000	35,000	36,000
	---	---	26,438	30,872	36,788	40,087	43,452	45,369	47,578	49,779	38,288	38,251
	---	---	5,645	6,983	9,896	13,201	14,618	15,644	20,461	25,017	20,005	15,182
	0	0	266	522	523	351	315	287	202	134	134	2,734

Table-2.3.1

SALARIES OF FULL-TIME EMPLOYED B.S. CHEMISTS IN INDUSTRY by SPECIALTY and YEARS SINCE BACHELOR'S DEGREE

SPECIALTY	YEARS SINCE BS											TOTAL
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	
Biochemistry	---	---	---	---	---	---	---	---	---	---	---	24,000 -Median
	14,667	24,833	19,200	18,000	0	26,000	---	44,000	63,250	27,500	---	30,754 -Mean
	3,786	19,687	1,929	---	---	3,367	---	25,357	34,461	38,891	---	25,073 -Std Dev
	3	3	3	1	1	4	0	3	4	2	0	24 -Count
Agric/Food	---	---	20,500	---	---	---	---	30,000	---	---	---	27,000
	14,000	16,425	21,039	24,950	29,350	31,327	31,933	31,733	31,589	40,000	27,800	27,446
	1,414	3,455	4,479	10,301	6,427	9,704	11,322	6,884	9,424	11,150	---	10,355
	2	12	18	14	6	11	9	15	9	9	1	106
Analytical	17,400	17,200	21,300	23,900	25,900	28,000	30,900	30,800	30,000	27,600	---	23,005
	16,571	17,692	21,114	24,644	25,207	28,904	31,000	30,871	31,485	26,413	---	24,274
	4,771	4,160	5,341	6,150	7,479	5,161	9,146	12,246	16,038	9,905	---	9,270
	31	110	116	86	60	47	47	66	33	16	0	612
Environment	---	---	22,250	---	---	36,000	---	---	---	---	---	30,000
	16,500	17,079	22,228	26,214	27,600	36,397	40,767	29,591	39,038	30,467	---	29,226
	2,121	2,606	4,652	5,661	9,848	5,461	12,548	9,817	17,031	15,485	---	10,925
	2	14	18	14	11	31	6	11	8	6	0	121
Inorganic	---	---	20,000	---	---	---	---	---	---	---	---	28,000
	17,000	18,329	20,387	22,538	26,743	38,263	37,010	24,667	36,575	47,500	---	28,047
	1,414	3,275	4,663	10,901	8,078	12,122	9,401	14,497	9,051	17,678	---	12,042
	2	7	15	8	7	8	10	6	8	2	0	73
Organic	---	17,000	21,500	24,200	28,800	32,000	35,000	34,600	---	31,300	---	28,000
	19,225	17,631	22,131	24,200	30,597	32,286	37,711	35,281	41,121	39,763	---	30,243
	3,279	3,436	5,055	3,883	8,327	11,887	12,906	11,776	8,062	14,802	---	12,029
	4	26	39	21	33	28	27	42	14	19	0	253
Pharm/Med	---	17,200	20,100	21,150	---	---	---	---	---	---	---	23,700
	16,786	17,188	18,117	20,980	29,240	30,371	29,710	34,189	41,160	26,075	---	24,248
	3,028	2,815	9,267	10,970	5,942	7,865	14,116	11,828	8,446	9,417	---	11,173
	7	16	23	20	10	14	10	9	5	4	0	118
Phys/Theo	---	---	---	---	---	---	---	---	---	---	---	24,000
	12,950	16,220	23,700	24,340	21,000	31,500	36,075	28,500	41,500	30,000	---	25,900
	9,276	3,689	4,542	4,897	4,243	7,436	9,559	---	6,623	---	---	10,795
	4	5	4	5	2	3	4	1	4	1	0	33
Polymer	---	18,200	21,400	27,100	28,400	31,500	35,000	32,400	38,750	36,000	---	28,800
	18,540	19,676	21,544	26,912	29,250	31,938	37,254	32,709	47,744	33,682	---	30,908
	1,431	4,984	4,327	5,164	6,288	13,939	9,130	12,359	34,823	17,209	---	16,513
	5	29	52	25	24	29	50	45	32	17	0	308
General	---	---	21,000	---	---	---	---	32,350	36,650	---	---	27,000
	17,586	17,285	20,826	22,567	29,238	33,218	34,255	33,205	47,205	64,956	---	31,949
	3,485	2,302	6,271	5,598	8,458	7,675	8,909	12,409	50,263	51,750	---	26,996
	7	13	23	9	13	11	11	20	20	9	0	136
Other Chem	---	16,000	22,000	---	33,000	31,650	32,000	30,000	---	---	---	28,000
	17,975	16,853	21,194	28,746	33,713	32,669	38,726	28,476	33,557	39,183	---	29,767
	4,191	2,993	6,579	8,004	9,560	8,155	18,448	14,742	11,716	24,275	---	14,200
	4	19	17	13	23	16	19	17	14	12	0	154
TOTAL	17,400	17,250	21,000	24,000	28,150	31,550	33,000	31,300	36,000	32,000	---	26,000
	16,713	17,776	21,115	24,690	28,321	32,077	35,202	32,158	40,201	37,449	27,800	27,814
	4,371	4,291	5,839	7,140	8,483	9,319	11,622	12,284	27,399	23,453	---	14,150
	71	254	328	216	190	202	193	235	151	97	1	1,938

SALARIES OF FULL-TIME EMPLOYED M.S. CHEMISTS IN INDUSTRY by SPECIALTY and YEARS SINCE BACHELOR'S DEGREE

SPECIALTY	YEARS SINCE BS											
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL
Biochemistry	---	---	---	---	---	---	---	---	---	---	---	28,000 -Median
	---	17,300	23,250	27,043	31,575	34,375	35,000	28,900	27,000	---	45,000	28,681 -Mean
	---	5,091	4,646	5,921	5,830	3,902	---	7,843	---	---	---	7,442 -Std Dev
	0	2	4	7	4	4	1	3	1	0	1	27 -Count
Agric/Food	---	---	---	---	---	---	---	---	---	---	---	30,000
	---	20,000	27,843	25,709	32,233	37,700	49,500	49,000	36,243	28,500	21,300	35,166
	---	---	12,031	5,446	4,528	15,138	33,797	24,525	14,544	---	---	18,439
	0	1	7	11	9	5	7	7	7	1	1	56
Analytical	---	---	20,900	24,200	28,400	31,750	33,300	35,400	30,250	---	---	27,500
	---	19,125	21,350	25,634	28,821	32,596	34,508	34,910	31,388	31,625	24,620	28,191
	---	3,990	5,918	5,129	10,670	12,756	8,415	7,974	5,335	5,788	6,380	9,303
	0	12	64	53	38	24	37	39	16	12	10	305
Environment	---	---	22,500	---	---	---	---	---	---	---	---	27,600
	---	19,767	22,507	28,011	30,680	33,527	33,000	30,538	25,620	37,625	31,600	28,790
	---	5,154	7,834	8,442	6,321	24,716	8,396	15,719	15,531	3,889	---	13,406
	0	3	15	9	10	11	5	8	5	4	1	71
Inorganic	---	---	---	---	---	---	---	---	---	---	---	30,000
	---	19,300	23,800	24,950	25,057	39,667	38,763	29,413	21,000	32,000	41,100	29,960
	---	3,111	3,023	5,256	11,838	5,508	6,653	7,456	29,698	2,449	11,964	10,468
	0	2	7	4	7	3	8	8	2	4	3	48
Organic	---	---	21,150	25,000	32,000	38,500	36,000	33,800	42,000	---	---	30,000
	---	17,867	20,622	25,528	33,116	37,579	37,610	34,669	47,370	30,913	36,067	32,395
	---	2,317	4,960	4,764	9,825	13,780	10,311	12,359	21,105	23,476	11,611	14,204
	0	6	32	29	19	19	31	35	20	8	6	205
Pharm/Med	---	---	19,350	26,050	31,000	---	---	---	---	---	---	26,900
	---	20,775	19,880	26,455	30,442	27,623	30,425	33,510	44,000	44,500	30,380	28,176
	---	5,385	4,158	4,744	7,992	10,892	6,593	7,674	40,181	21,920	6,912	12,060
	0	4	20	20	19	13	8	10	5	2	5	106
Phys/Theo	---	---	---	---	---	---	---	---	---	---	---	29,600
	---	20,450	---	29,900	29,000	30,433	---	34,750	27,000	---	43,000	29,627
	---	2,192	---	3,061	---	4,008	---	354	23,388	---	---	10,599
	0	2	0	3	1	3	0	2	3	0	1	15
Polymer	---	---	22,800	25,200	30,000	32,700	34,000	35,750	36,000	---	---	30,000
	---	20,000	23,434	25,060	30,533	32,367	39,348	38,397	39,194	34,920	31,171	32,008
	---	1,354	5,103	7,712	11,318	11,715	17,105	10,720	13,420	12,465	11,939	12,730
	0	4	35	25	18	21	27	32	16	10	7	195
General	---	---	---	---	---	---	---	---	---	---	---	28,800
	---	---	22,633	27,950	36,400	40,350	32,533	39,817	30,000	23,050	25,000	32,109
	---	---	3,018	2,783	12,095	4,864	18,694	14,383	11,314	16,702	---	13,256
	0	0	9	4	5	4	6	12	2	4	1	47
Other Chem	---	---	21,000	---	---	---	---	35,000	---	---	---	28,650
	---	22,800	21,869	24,430	27,357	39,500	30,264	22,141	42,667	33,771	13,900	28,974
	---	---	5,815	5,900	14,026	23,335	6,073	11,818	9,522	9,697	12,638	11,284
	0	1	16	10	7	2	11	17	6	7	3	80
TOTAL	---	19,200	21,700	25,000	30,000	33,000	33,600	35,000	35,000	31,050	29,000	28,500
	---	19,351	21,961	25,853	30,318	33,767	36,406	35,599	37,886	32,704	29,836	30,273
	---	3,477	5,857	5,645	9,862	13,746	13,554	11,966	18,348	12,860	11,305	12,382
	0	37	209	175	137	109	141	173	83	52	39	1,155

SALARIES OF FULL-TIME EMPLOYED Ph.D. CHEMISTS IN INDUSTRY by SPECIALTY and YEARS SINCE BACHELOR'S DEGREE

SPECIALTY	YEARS SINCE BS											TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp		
Biochemistry	---	---	---	27,500	39,200	40,000	---	---	---	---	---	38,250	-Median
	---	---	29,467	30,229	39,844	40,221	41,311	39,275	54,050	37,333	31,533	39,058	-Mean
	---	---	7,487	7,027	11,192	22,676	18,869	17,918	25,302	32,528	1,332	18,298	-Std Dev
	0	0	3	17	16	19	9	8	10	3	3	88	-Count
Agric/Food	---	---	---	28,500	32,750	40,000	39,600	---	---	---	---	35,000	
	---	---	25,333	30,557	33,212	43,982	37,080	50,290	51,908	50,055	33,667	38,382	
	---	---	2,064	7,700	12,650	18,696	18,027	18,980	25,975	24,290	19,344	18,268	
	0	0	9	28	26	22	15	10	12	11	9	142	
Analytical	---	---	27,000	28,900	34,200	36,750	40,000	35,900	---	---	32,000	32,500	
	---	---	27,320	29,117	35,822	37,758	43,300	37,368	41,015	36,400	33,022	34,396	
	---	---	3,831	4,981	10,394	11,186	13,308	10,983	14,543	10,315	11,385	10,762	
	0	0	55	80	95	40	43	28	13	7	18	379	
Environment	---	---	---	30,400	---	---	---	41,500	---	---	---	38,000	
	---	---	29,586	31,895	30,946	39,517	46,125	43,738	47,292	45,625	28,325	38,377	
	---	---	2,381	6,305	12,266	6,190	13,365	9,710	25,370	6,676	19,146	14,466	
	0	0	7	19	13	6	12	16	12	4	4	93	
Inorganic	---	---	26,550	30,700	37,000	35,500	---	44,250	---	---	---	33,600	
	---	---	27,573	32,208	36,106	37,883	41,020	43,288	41,155	46,833	32,775	35,050	
	---	---	2,887	5,642	9,543	12,634	8,080	16,626	10,193	19,925	1,087	10,766	
	0	0	40	38	34	18	10	16	11	6	4	177	
Organic	---	---	27,000	30,000	37,000	39,700	42,000	43,550	47,700	44,500	32,000	36,000	
	---	---	26,365	30,167	37,176	39,590	42,300	44,544	50,059	48,288	37,378	37,888	
	---	---	5,600	6,733	8,182	12,584	16,703	14,818	26,585	22,517	20,143	15,514	
	0	0	71	113	119	88	68	68	44	34	32	637	
Pharm/Med	---	---	---	30,600	38,000	41,000	48,000	46,000	48,000	50,850	40,000	40,000	
	---	---	23,708	32,017	38,090	45,203	47,885	51,591	53,459	52,550	45,977	42,466	
	---	---	7,668	6,647	10,546	12,978	13,675	16,122	24,768	20,469	23,142	16,766	
	0	0	13	59	59	39	33	32	22	22	22	301	
Phys/Theo	---	---	27,700	29,000	37,500	37,650	38,000	49,200	---	---	---	36,000	
	---	---	24,782	29,229	38,017	40,000	38,276	45,104	46,327	64,963	41,240	37,735	
	---	---	9,637	8,338	8,564	7,548	8,894	19,043	15,787	49,820	16,988	17,298	
	0	0	17	42	30	18	21	23	11	8	10	180	
Polymer	---	---	26,400	32,000	37,200	37,200	41,800	45,550	42,000	47,900	32,800	37,500	
	---	---	25,769	32,615	37,354	39,031	43,173	46,776	43,410	52,016	34,192	38,562	
	---	---	6,547	8,390	9,875	11,939	8,747	15,363	12,893	30,827	11,491	13,810	
	0	0	39	93	93	71	86	58	51	25	25	541	
General	---	---	---	---	35,000	---	---	---	---	---	---	37,000	
	---	---	26,440	27,308	35,857	41,100	61,967	39,230	42,057	49,050	45,667	40,245	
	---	---	2,381	7,150	10,442	6,322	37,084	11,162	15,561	10,872	9,292	17,356	
	0	0	5	13	21	11	9	10	7	12	3	91	
Other Chem	---	---	---	33,000	37,000	36,000	---	45,000	---	---	---	37,000	
	---	---	24,400	32,500	38,509	37,062	44,650	51,505	49,117	47,000	58,667	40,430	
	---	---	10,307	4,997	8,348	13,044	8,477	17,507	14,010	21,479	48,964	16,733	
	0	0	8	31	23	21	12	19	12	4	6	136	
TOTAL	---	---	25,800	30,000	36,000	39,000	42,000	43,000	44,000	46,250	35,000	36,000	
	---	---	26,452	30,863	36,783	40,027	43,460	45,337	47,331	49,820	38,149	38,208	
	---	---	5,639	6,950	9,859	13,194	14,554	15,627	20,455	24,835	19,893	15,130	
	0	0	267	533	529	353	318	288	205	136		2,765	

Table-2.4.1

SALARIES OF FULL-TIME EMPLOYED B.S. CHEMISTS IN INDUSTRY by GEOGRAPHIC REGION and YEARS SINCE BACHELOR'S DEGREE

	YEARS SINCE BS												
REGION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL	
Pacific	---	17,100	21,600	21,550	27,500	31,450	31,000	32,000	---	---	---	26,000	-Median
	17,813	17,996	21,862	24,289	27,471	33,018	33,969	36,744	40,625	34,609	---	28,301	-Mean
	3,496	7,010	5,952	11,399	5,307	9,244	12,592	12,675	21,447	13,746	---	12,663	-Std Dev
	8	24	34	18	21	22	16	27	12	11	0	193	-Count
Mountain	---	---	---	---	---	---	---	---	---	---	---	24,050	
	12,800	20,250	22,480	24,000	43,600	33,450	32,767	39,200	52,000	---	---	26,811	
	---	3,221	4,338	4,243	30,547	2,192	929	---	---	---	---	11,194	
	1	6	10	2	2	2	3	1	1	0	0	28	
W N Central	---	16,400	20,000	---	---	---	---	---	---	---	---	24,900	
	15,033	16,550	20,008	23,643	25,275	29,840	37,250	34,023	58,000	33,625	---	27,699	
	2,219	1,929	7,941	5,002	11,908	7,371	7,848	10,966	68,122	12,079	---	24,319	
	3	16	23	14	8	10	4	13	10	4	0	105	
W S Central	---	18,400	22,650	---	---	---	30,500	31,000	---	---	---	25,000	
	17,900	18,176	23,250	27,015	31,208	30,970	33,088	27,810	27,371	44,425	27,800	27,015	
	3,286	2,931	4,471	6,398	7,449	8,102	13,569	11,609	14,517	21,499	---	10,693	
	5	17	24	13	13	10	17	20	7	4	1	131	
E N Central	18,500	18,000	20,500	23,900	28,200	30,000	31,000	31,150	37,900	36,000	---	25,000	
	17,462	18,361	20,319	23,974	28,696	31,132	34,814	31,130	43,117	34,550	---	27,118	
	5,040	4,525	5,651	7,301	6,965	7,492	13,668	12,850	29,983	16,208	---	14,534	
	21	77	83	54	53	37	37	56	46	18	0	482	
E S Central	---	---	22,000	---	---	---	---	34,800	---	---	---	25,200	
	---	18,750	21,447	23,070	23,125	31,614	34,700	32,767	29,975	25,200	---	26,545	
	---	2,611	4,272	3,334	6,750	6,552	8,334	8,579	5,293	---	---	8,340	
	0	6	13	10	4	7	5	15	8	1	0	71	
Mid Atlantic	17,300	17,000	21,000	25,000	28,050	27,500	32,900	31,400	32,250	32,000	---	25,800	
	16,218	17,373	20,434	23,055	27,557	31,078	34,617	31,743	35,310	40,409	---	27,876	
	4,919	3,110	6,213	7,258	8,445	12,395	11,203	11,066	15,663	29,671	---	14,190	
	19	66	82	65	58	54	65	61	42	33	0	536	
So Atlantic	---	16,650	21,250	24,500	30,000	29,600	40,000	33,000	38,000	---	---	27,150	
	15,717	18,517	22,856	24,981	27,633	29,253	40,524	32,087	40,441	35,663	---	28,628	
	4,106	6,542	4,849	5,798	9,970	5,709	11,348	13,647	15,451	22,853	---	12,561	
	12	18	34	26	18	19	25	23	17	8	0	200	
New England	---	17,000	21,000	---	---	30,000	31,800	30,750	---	---	---	30,000	
	17,400	16,943	20,600	26,331	31,642	36,368	34,521	33,863	43,588	33,017	---	30,063	
	---	2,612	6,346	6,883	9,583	6,214	8,535	16,701	20,795	19,310	---	12,542	
	1	23	21	13	12	40	19	16	8	6	0	159	
TOTAL	17,450	17,300	21,000	24,000	28,200	31,600	33,000	31,350	36,000	32,500	---	26,000	
	16,724	17,783	21,104	24,712	28,364	32,236	35,257	32,244	40,201	37,515	27,800	27,853	
	4,402	4,298	5,856	7,149	8,584	9,061?	11,660	12,324	27,399	23,568	---	14,172	
	70	253	326	215	189	201	191	232	151	96	1	1,925	

Table-2.4.2

SALARIES OF FULL-TIME EMPLOYED M.S. CHEMISTS IN INDUSTRY by GEOGRAPHIC REGION and YEARS SINCE BACHELOR'S DEGREE

REGION	YEARS SINCE BS												
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL	
Pacific	---	---	19,800	27,000	---	---	---	---	---	---	---	25,500	-Median
	---	18,017	20,852	27,500	24,960	28,843	35,757	39,425	34,000	39,520	29,500	27,756	-Mean
	---	2,840	9,375	5,332	11,488	10,642	8,155	16,927	2,828	12,266	9,747	11,619	-Std Dev
	0	6	21	15	10	7	7	8	2	5	4	85	-Count
Mountain	---	---	---	---	---	---	---	---	---	---	---	27,000	
	---	---	22,775	24,525	16,333	33,467	29,300	32,850	29,250	35,900	30,233	27,496	
	---	---	2,290	3,684	14,154	5,937	7,495	3,041	6,602	8,344	12,921	8,710	
	0	0	4	4	3	3	2	2	4	2	3	27	
W N Central	---	---	---	---	---	---	---	---	---	---	---	28,600	
	---	21,500	21,770	24,844	35,875	42,125	32,250	49,967	43,667	22,200	35,000	32,486	
	---	2,121	3,096	5,257	10,022	28,949	7,974	25,133	10,017	---	7,071	15,702	
	0	2	10	9	8	4	4	6	3	1	2	49	
W S Central	---	---	24,000	---	---	---	---	39,000	---	---	---	28,850	
	---	22,000	23,690	26,889	29,083	29,071	31,814	41,633	20,267	36,300	42,000	30,276	
	---	---	4,755	7,416	10,025	13,608	11,825	9,603	17,743	5,451	16,971	11,317	
	0	1	21	9	6	7	7	15	3	3	2	74	
E N Central	---	---	21,900	25,750	31,000	32,350	32,600	33,800	37,000	---	---	28,100	
	---	20,092	21,946	25,688	31,326	33,057	32,000	33,674	38,122	26,475	33,433	29,710	
	---	4,341	5,071	6,181	8,627	17,086	17,589	9,815	15,873	9,497	14,493	12,251	
	0	13	57	56	35	28	32	53	23	12	12	321	
E S Central	---	---	---	---	---	---	---	---	---	---	---	29,350	
	---	21,767	19,000	24,740	35,250	39,217	30,250	35,500	26,050	32,500	29,700	30,187	
	---	2,732	4,409	4,775	10,681	12,230	6,711	4,412	2,758	3,536	---	9,325	
	0	3	4	5	4	6	6	5	2	2	1	38	
Mid Atlantic	---	---	21,700	25,000	29,000	30,000	34,300	34,900	34,000	33,850	---	28,500	
	---	18,088	21,776	26,140	30,502	31,632	37,264	33,928	37,548	34,850	25,583	30,117	
	---	2,946	6,431	5,775	10,685	12,256	13,640	12,970	20,891	13,832	7,543	12,885	
	0	8	63	52	43	28	50	46	29	16	12	347	
So Atlantic	---	---	22,000	23,900	30,000	---	31,500	38,000	---	---	---	30,000	
	---	17,733	22,493	24,361	29,547	35,150	35,589	36,964	45,667	40,575	20,200	32,244	
	---	2,804	6,257	4,069	5,780	7,276	11,279	7,108	21,894	20,830	1,697	12,324	
	0	3	15	18	17	10	18	25	12	4	2	124	
New England	---	---	---	---	---	---	---	---	---	---	---	30,500	
	---	18,500	22,100	26,871	34,388	38,021	41,293	31,254	42,975	32,917	22,600	32,924	
	---	---	2,474	4,903	8,919	10,781	12,624	12,106	18,764	7,324	---	11,894	
	0	1	14	7	8	14	14	13	4	6	1	82	
TOTAL	---	19,200	21,700	25,000	30,000	33,000	33,600	35,000	35,000	31,200	29,000	28,500	
	---	19,351	21,961	25,853	30,496	33,689	36,486	35,599	37,982	33,345	29,836	30,311	
	---	3,477	5,857	5,645	9,870	13,819	13,569	11,966	18,440	12,119	11,305	12,374	
	0	37	209	175	134	107	140	173	82	51	39	1,147	

Table-2.4.3

SALARIES OF FULL-TIME EMPLOYED Ph.D CHEMISTS IN INDUSTRY by GEOGRAPHIC REGION and YEARS SINCE BACHELOR'S DEGREE

REGION	YEARS SINCE BS											
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL
Pacific	---	---	26,400	30,000	36,500	39,850	41,600	39,500	---	---	---	36,000 -Median
	---	---	26,768	31,312	38,783	42,462	43,740	39,174	38,900	35,344	33,100	36,926 -Mean
	---	---	7,597	5,785	9,225	18,739	10,487	15,248	19,975	13,587	13,414	13,361 -Std Dev
	0	0	22	51	40	34	30	31	13	9	10	240 -Count
Mountain	---	---	---	30,000	---	---	---	---	---	---	---	31,500
	---	---	24,080	29,193	36,650	36,950	41,450	44,000	---	82,500	70,000	36,103
	---	---	3,230	9,840	10,253	8,107	2,186	---	---	24,749	---	16,039
	0	0	5	15	8	4	4	1	0	2	1	40
W N Central	---	---	26,300	30,000	35,000	39,150	42,000	---	---	---	---	34,900
	---	---	26,456	30,572	34,552	40,288	35,444	38,136	48,423	57,375	32,886	35,908
	---	---	3,024	3,731	6,035	17,224	19,658	13,459	19,688	8,360	5,571	13,665
	0	0	16	25	27	16	16	14	13	4	7	138
W S Central	---	---	27,950	29,600	36,000	---	43,000	42,550	---	---	---	35,900
	---	---	28,308	28,847	35,536	36,989	43,783	41,305	50,944	62,425	39,117	36,581
	---	---	2,986	9,583	8,277	8,572	13,229	13,370	12,635	17,726	21,025	13,445
	0	0	24	38	33	9	23	20	9	4	12	172
E N Central	---	---	26,950	29,700	36,000	37,000	40,000	45,000	40,000	49,500	32,000	35,000
	---	---	26,120	31,458	37,152	38,216	40,432	45,914	43,378	48,667	37,556	37,659
	---	---	6,628	7,943	10,593	12,827	10,560	14,739	13,562	21,357	23,331	14,003
	0	0	60	121	111	88	73	56	55	43	27	634
E S Central	---	---	---	33,950	38,000	---	---	---	---	---	---	36,500
	---	---	24,160	32,256	36,006	37,521	42,140	51,860	47,557	42,300	35,200	36,614
	---	---	8,853	5,823	8,729	7,521	6,429	12,768	22,294	12,668	11,799	12,164
	0	0	10	16	17	14	5	5	7	3	4	81
Mid Atlantic	---	---	27,000	31,300	37,000	41,000	43,600	46,100	48,000	43,000	37,500	37,000
	---	---	27,048	31,259	37,309	41,184	46,592	48,939	54,206	49,408	40,818	40,121
	---	---	5,181	7,080	9,222	13,314	18,586	16,477	26,120	26,247	23,510	17,268
	0	0	83	157	179	113	100	90	66	49	49	886
So Atlantic	---	---	25,950	30,000	35,000	39,550	40,400	42,000	46,000	52,000	37,500	36,500
	---	---	24,909	29,916	35,774	41,609	42,958	44,036	45,000	56,937	36,900	38,297
	---	---	5,562	4,915	10,487	9,668	12,154	15,056	13,944	33,478	13,203	14,932
	0	0	34	65	69	44	40	55	29	19	16	371
New England	---	---	---	30,000	33,500	36,000	40,600	42,700	---	---	---	35,000
	---	---	26,780	30,605	36,345	38,448	44,400	48,850	39,092	30,267	36,000	37,006
	---	---	1,654	5,117	13,510	12,592	10,173	17,194	23,057	6,133	11,125	13,383
	0	0	10	43	38	27	24	16	12	3	8	181
TOTAL	---	---	26,850	30,000	36,000	39,000	42,000	43,000	44,000	46,250	35,000	36,000
	---	---	26,441	30,859	36,808	40,057	43,357	45,337	47,373	49,820	38,313	38,224
	---	---	5,660	6,960	9,857	13,228	14,511	15,627	20,496	24,835	19,996	15,151
	0	0	264	531	522	349	315	288	204	136	134	2,743

Table-3.1.1

FULL-TIME EMPLOYED ACADEMIC CHEMISTS BY SCHOOL AND RANK

SCHOOL	RANK							TOTAL	
	Profess	Assoc Prof	Asst Prof	Instruc	Non-Faculty	Un-ranked	No Response		
Pvt Doct	35,000	25,000	20,500	---	19,000	---	---	28,000	-Median
	36,118	24,859	20,902	20,613	21,083	16,200	37,383	29,394	-Mean
	12,215	7,076	6,039	5,625	6,010	5,503	11,952	12,020	-Std Dev
	163	66	64	8	23	3	6	333	-Count
Pvt Mast	27,000	20,800	---	---	---	---	---	22,600	
	26,160	21,125	14,057	---	23,100	14,900	16,400	22,405	
	6,277	2,624	6,352	---	---	141	---	7,290	
	42	16	14	0	1	2	1	76	
Pvt Bach	23,000	18,050	15,200	---	---	---	---	19,500	
	22,820	17,983	15,394	14,267	---	16,150	27,229	19,974	
	5,947	4,328	2,869	1,447	---	71	6,576	6,010	
	140	66	64	3	0	2	7	282	
Pvt Assoc	---	---	---	---	---	---	---	---	
	25,000	12,333	14,633	19,500	---	24,000	---	16,600	
	---	11,094	2,413	---	---	---	---	7,564	
	1	3	3	1	0	1	0	9	
Pub Doct	34,500	25,000	20,000	---	19,700	---	---	28,000	
	35,165	24,624	20,412	19,680	20,218	21,508	29,464	29,283	
	10,854	7,218	6,351	4,679	7,921	6,086	8,491	11,269	
	420	172	121	10	45	12	11	791	
Pub Mast	27,500	21,000	17,500	---	---	---	---	24,500	
	27,384	21,132	17,650	15,950	---	17,000	24,067	24,371	
	6,485	5,177	1,970	4,172	---	---	3,580	6,822	
	99	47	18	2	0	1	3	170	
Pub Bach	26,000	21,050	16,900	---	---	---	---	23,000	
	28,840	21,810	16,688	18,467	---	21,000	21,500	24,472	
	25,154	5,396	1,706	2,237	---	---	4,950	18,887	
	77	40	26	3	0	1	2	149	
Pub Assoc	25,000	---	---	---	---	---	---	22,750	
	24,883	21,958	16,114	20,631	---	18,517	23,900	21,930	
	6,350	2,809	7,894	4,557	---	9,512	4,927	6,439	
	23	12	7	13	0	6	5	66	
TOTAL	30,000	22,000	17,800	18,700	19,700	18,900	28,000	25,000	
	31,584	22,671	18,605	19,488	20,548	19,354	28,289	26,478	
	12,773	6,738	5,789	4,632	7,249	6,383	8,985	11,595	
	965	422	317	40	69	28	35	1,876	

Table-1.1.2

SALARIES OF FULL-TIME EMPLOYED ACADEMIC PhD CHEMISTS by RANK and YEARS SINCE BACHELOR'S DEGREE

RANK	YEARS SINCE BS											
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL
Professor	---	---	---	---	26,500	28,600	30,000	31,000	31,700	34,000	32,800	30,000 -Median
	---	---	---	19,143	28,027	30,184	30,551	32,165	32,924	36,464	37,053	31,569 -Mean
	---	---	---	10,923	22,779	9,124	9,231	11,318	12,201	12,018	12,134	12,760 -Std Dev
	0	0	0	7	106	208	213	167	126	102	36	965 -Count
Assoc Prof	---	---	---	19,650	22,000	22,100	24,900	23,050	---	---	22,000	22,000
	---	---	24,300	20,372	23,065	22,156	24,313	25,855	23,450	20,800	21,413	22,672
	---	---	---	6,351	6,431	6,100	8,778	5,760	5,020	10,716	7,199	6,746
	0	0	1	60	160	99	46	22	12	6	15	421
Asst Prof	---	---	16,000	17,950	19,250	18,000	---	---	---	---	17,650	17,800
	---	---	15,785	18,902	20,354	19,538	23,367	17,233	26,750	16,000	19,350	18,587
	---	---	5,985	5,451	4,980	4,180	4,225	1,914	10,960	---	7,403	5,799
	0	0	73	144	52	16	6	3	2	1	18	315
Instructor	---	---	---	---	---	---	---	---	---	---	---	18,700
	---	---	17,700	18,400	19,157	22,300	22,700	24,467	---	---	---	19,488
	---	---	3,990	4,564	3,696	5,474	4,525	7,814	---	---	---	4,632
	0	0	8	10	14	3	2	3	0	0	0	40
Non-Faculty	---	---	---	17,800	20,800	---	---	---	---	---	---	19,700
	---	---	16,725	19,280	20,394	19,400	20,967	16,850	32,360	36,000	20,417	20,548
	---	---	3,592	4,926	7,418	9,752	4,508	2,616	9,106	---	2,335	7,249
	0	0	8	20	16	8	3	2	5	1	6	69
Unranked	---	---	---	---	---	---	---	---	---	---	---	18,900
	---	---	16,650	17,833	21,857	17,667	23,000	---	27,000	---	17,900	19,354
	---	---	4,795	7,894	6,438	6,658	1,414	---	---	---	1,273	6,383
	0	0	4	9	7	3	2	0	1	0	2	28
No Response	---	---	---	---	---	---	---	---	---	---	---	28,000
	---	---	---	19,233	25,880	26,071	34,000	30,614	33,440	28,000	28,600	28,289
	---	---	---	1,662	7,869	5,421	18,385	9,167	11,112	---	10,407	8,985
	0	0	0	3	5	7	2	7	5	1	5	35
TOTAL	---	---	16,250	18,500	23,050	25,900	28,200	30,000	30,000	33,000	25,250	25,000
	---	---	16,155	19,233	23,879	26,866	29,154	30,949	32,048	35,352	28,106	26,478
	---	---	5,631	5,847	11,657	9,075	9,400	10,988	11,806	12,427	12,556	11,591
	0	0	94	253	360	344	274	204	151	111	82	1,873

Table-1.1.1

SALARIES OF FULL-TIME EMPLOYED ACADEMIC PhD CHEMISTS by SPECIALTY and YEARS SINCE BACHELOR'S DEGREE

SPECIALTY	YEARS SINCE BS											
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL
Biochemistry	---	---	---	19,700	26,200	27,500	34,000	36,000	33,000	42,000	29,000	28,200 -Median
	---	---	13,742	19,190	26,309	30,386	34,343	35,847	34,069	40,326	29,858	29,613 -Mean
	---	---	7,032	5,856	6,824	10,294	11,205	9,077	12,428	12,624	13,926	11,725 -Std Dev
	0	0	12	52	80	56	46	45	26	31	31	379 -Count
Agric/Food	---	---	---	---	---	---	---	---	---	---	---	25,800
	---	---	19,500	21,829	25,850	27,671	34,014	29,000	40,200	43,233	---	29,403
	---	---	5,384	2,637	3,523	11,413	8,885	2,828	10,432	13,242	---	10,367
	0	0	3	7	6	7	7	2	4	3	0	39
Analytical	---	---	16,500	19,500	19,500	22,950	28,500	28,300	---	---	---	22,700
	---	---	16,940	19,900	21,307	23,343	29,633	30,544	26,892	28,750	27,800	24,615
	---	---	1,975	2,850	4,861	7,896	8,973	10,685	9,580	7,769	8,043	8,500
	0	0	13	18	27	28	24	18	13	8	11	162
Environmental	---	---	---	---	25,000	---	---	---	---	---	---	24,650
	---	---	17,614	22,000	24,116	34,100	25,700	33,667	38,750	25,133	18,000	24,868
	---	---	8,281	8,041	9,931	6,146	12,061	10,116	6,010	4,447	---	10,033
	0	0	7	12	19	5	8	3	2	3	1	60
Inorganic	---	---	---	17,100	22,700	27,000	24,000	26,000	---	---	---	23,000
	---	---	15,373	18,819	22,349	27,341	26,186	30,753	31,278	29,540	25,867	24,355
	---	---	6,146	4,887	6,059	9,590	7,642	15,313	8,885	6,071	12,281	9,451
	0	0	11	27	37	46	21	15	9	5	3	174
Organic	---	---	16,250	17,500	21,650	25,000	26,450	27,000	28,000	30,750	22,000	24,000
	---	---	15,733	17,962	24,080	24,507	27,004	28,757	29,387	34,223	23,353	24,982
	---	---	4,396	3,130	25,862	8,114	6,757	8,964	11,565	8,989	10,705	13,706
	0	0	18	61	80	81	78	46	45	22	17	448
Pharm/Med	---	---	---	21,800	---	30,500	---	---	---	---	---	28,250
	---	---	18,870	23,591	28,621	32,976	35,986	42,975	35,483	38,000	43,100	30,518
	---	---	4,903	10,665	11,455	8,284	3,953	12,698	6,821	13,115	19,482	12,425
	0	0	10	23	14	17	7	8	6	4	5	94
Phys/Theo	---	---	---	18,000	23,100	26,100	27,200	30,000	35,200	32,000	---	25,800
	---	---	16,667	18,812	22,402	26,738	28,375	30,209	36,754	37,832	26,443	27,317
	---	---	7,229	3,769	6,303	8,238	9,820	12,092	13,611	10,714	9,783	10,808
	0	0	9	34	45	68	52	35	28	22	7	300
Polymer	---	---	---	---	---	---	---	---	---	---	---	31,500
	---	---	0	23,225	29,075	30,488	35,589	35,100	21,250	---	24,000	29,386
	---	---	---	5,040	7,812	4,151	3,665	6,749	15,879	---	---	9,643
	0	0	1	4	4	8	9	5	4	0	1	36
General	---	---	---	---	19,800	20,000	23,500	25,100	---	---	---	21,450
	---	---	14,300	13,333	20,224	20,732	23,969	22,919	28,336	23,417	24,175	21,461
	---	---	529	6,952	4,530	3,564	4,073	7,099	6,258	11,753	5,176	6,924
	0	0	4	12	37	22	16	26	11	12	4	144
Other Chem	---	---	---	---	---	---	---	---	---	---	---	26,800
	---	---	17,750	18,067	25,145	33,483	34,700	35,000	41,000	73,000	29,700	29,765
	---	---	3,887	2,003	7,008	12,396	15,692	---	1,000	---	13,152	13,381
	0	0	4	3	11	6	5	1	3	1	2	37
TOTAL	---	---	16,250	18,500	23,050	25,900	28,200	30,000	30,000	33,000	25,250	25,000
	---	---	16,155	19,233	23,879	26,866	29,154	30,949	32,048	35,352	28,106	26,478
	---	---	5,631	5,847	13,657	9,075	9,400	10,988	11,806	12,427	12,556	11,591
	0	0	92	253	360	344	274	204	151	111	82	1,873

Table-4.1.0

FULL-TIME EMPLOYED INDUSTRIAL CHEMICAL ENGINEERS BY DEGREE AND YEARS SINCE BS

HIGHEST DEGREE	YEARS SINCE BS											
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	TOTAL	
Bachelors	---	20,000	24,150	27,150	29,100	37,100	38,500	38,200	40,000	38,000	35,000	-Median
	19,650	20,130	23,847	25,905	29,604	39,454	43,274	40,315	44,987	43,332	37,740	-Mean
	507	3,449	4,985	9,695	10,740	12,378	23,482	18,964	18,516	30,053	20,271	-Std Dev
	4	23	32	20	28	28	57	85	77	44	398	-Count
Masters	---	---	25,000	29,000	37,100	35,000	40,500	39,000	42,000	45,000	36,200	
	---	19,413	25,100	29,495	37,482	33,294	44,000	43,153	49,155	58,796	39,859	
	---	8,573	6,306	8,741	14,426	10,119	16,023	21,345	24,469	52,118	24,092	
	0	8	33	41	28	16	34	68	44	25	297	
Doctorate	---	---	---	34,000	40,400	46,800	42,950	45,250	53,400	41,000	40,100	
	---	---	28,092	34,093	40,787	46,926	52,911	46,932	52,358	49,191	44,201	
	---	---	3,123	10,476	11,627	21,260	37,447	14,836	26,036	28,389	22,388	
	0	0	13	45	55	35	38	38	26	22	272	
TOTAL	---	21,000	25,000	31,500	37,000	38,800	40,000	40,000	42,000	40,000	37,000	
	19,650	19,945	25,085	30,770	37,132	41,516	46,304	42,642	47,538	48,997	40,208	
	507	5,097	5,497	10,099	12,919	17,270	27,041	19,202	21,892	37,233	22,235	
	4	31	78	106	111	79	129	191	147	91	967	

Table-5.1.0

EMPLOYMENT STATUS OF CHEMISTS BY HIGHEST DEGREE

EMPLOYMENT STATUS	HIGHEST DEGREE: Bachelors	Masters	Doctorate	TOTAL	
Postdoctorate	2	3	215	220	-Count
	0.9%	1.4%	97.7%	100.0%	-% of Row
	0.1%	0.2%	3.7%	2.2%	-% of Col
Employed Full-time	2,433	1,708	5,408	9,559	
	25.6%	17.9%	56.6%	100.0%	
	94.7%	95.4%	93.8%	94.3%	
Unemployed Seeking	36	18	33	87	
	41.4%	20.7%	37.9%	100.0%	
	1.4%	1.0%	0.6%	0.9%	
Unemployed Not Seeking	42	28	36	106	
	39.6%	26.4%	34.0%	100.0%	
	1.6%	1.6%	0.6%	1.0%	
Employed Part-time	33	24	42	99	
	33.3%	24.2%	42.4%	100.0%	
	1.3%	1.3%	0.7%	1.0%	
No Response	25	10	32	67	
	37.3%	14.9%	47.8%	100.0%	
	1.0%	0.6%	0.6%	0.7%	
TOTAL	2,581	1,791	5,766	10,138	
	25.5%	17.7%	56.9%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table-5.2.0

EMPLOYMENT STATUS OF CHEMISTS BY AGE LEVEL

EMPLOYMENT STATUS	AGE LEVEL											
	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	>= 65	No Resp	TOTAL
Postdoctorate	2	98	78	29	8	1	3	1	0	0	0	220 -Count
	0.9%	44.5%	35.5%	13.2%	3.6%	0.5%	1.4%	0.5%	0.0%	0.0%	0.0%	100.0% -% of Row
	0.9%	9.2%	5.1%	1.7%	0.6%	0.1%	0.3%	0.1%	0.0%	0.0%	0.0%	2.2% -% of Col
Employed Full-time	202	929	1,413	1,589	1,313	1,147	1,135	1,109	686	11	25	9,559
	2.1%	9.7%	14.8%	16.6%	13.7%	12.0%	11.9%	11.6%	7.2%	0.1%	0.3%	100.0%
	92.7%	87.2%	92.5%	95.3%	97.2%	97.4%	96.8%	96.0%	90.4%	57.9%	96.2%	94.3%
Unemployed Seeking	4	16	11	12	8	8	13	9	5	1	0	87
	4.6%	18.4%	12.6%	13.8%	9.2%	9.2%	14.9%	10.3%	5.7%	1.1%	0.0%	100.0%
	1.8%	1.5%	0.7%	0.7%	0.6%	0.7%	1.1%	0.8%	0.7%	5.3%	0.0%	0.9%
Unemployed Not Seeking	3	7	5	10	4	7	6	16	42	6	0	106
	2.8%	6.6%	4.7%	9.4%	3.8%	6.6%	5.7%	15.1%	39.6%	5.7%	0.0%	100.0%
	1.4%	0.7%	0.3%	0.6%	0.3%	0.6%	0.5%	1.4%	5.5%	31.6%	0.0%	1.0%
Employed Part-time	4	13	13	15	10	8	3	13	19	1	0	99
	4.0%	13.1%	13.1%	15.2%	10.1%	8.1%	3.0%	13.1%	19.2%	1.0%	0.0%	100.0%
	1.8%	1.2%	0.9%	0.9%	0.7%	0.7%	0.3%	1.1%	2.5%	5.3%	0.0%	1.0%
No Response	3	2	7	12	8	7	13	7	7	0	1	67
	4.5%	3.0%	10.4%	17.9%	11.9%	10.4%	19.4%	10.4%	10.4%	0.0%	1.5%	100.0%
	1.4%	0.2%	0.5%	0.7%	0.6%	0.6%	1.1%	0.6%	0.9%	0.0%	3.8%	0.7%
TOTAL	218	1,065	1,527	1,667	1,351	1,178	1,173	1,155	759	19	26	10,138
	2.2%	10.5%	15.1%	16.4%	13.3%	11.6%	11.6%	11.4%	7.5%	0.2%	0.3%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table-5.3.0

EMPLOYMENT STATUS OF CHEMISTS BY MINORITY STATUS

MINORITY STATUS	EMPLOYMENT STATUS						TOTAL
	Postdoc	Employed FT	Unempl Seeking	Unempl Not seek	Employed PT	No Response	
White	188	8,790	76	104	93	59	9,310 -Count
	2.0%	94.4%	0.8%	1.1%	1.0%	0.6%	100.0% -% of Row
	85.5%	92.6%	88.4%	97.2%	95.9%	88.1%	92.5% -% of Col
Black	2	94	3	1	0	1	101
	2.0%	93.1%	3.0%	1.0%	0.0%	1.0%	100.0%
	0.9%	1.0%	3.5%	0.9%	0.0%	1.5%	1.0%
Amer Indian	0	9	0	1	0	1	11
	0.0%	81.8%	0.0%	9.1%	0.0%	9.1%	100.0%
	0.0%	0.1%	0.0%	0.9%	0.0%	1.5%	0.1%
Asian or Pacific Islander	27	442	6	1	4	6	486
	5.6%	90.9%	1.2%	0.2%	0.8%	1.2%	100.0%
	12.3%	4.7%	7.0%	0.9%	4.1%	9.0%	4.8%
Hispanic	1	60	0	0	0	0	61
	1.6%	98.4%	0.0%	0.0%	0.0%	0.0%	100.0%
	0.5%	0.6%	0.0%	0.0%	0.0%	0.0%	0.6%
None of Above	1	33	1	0	0	0	35
	2.9%	94.3%	2.9%	0.0%	0.0%	0.0%	100.0%
	0.5%	0.3%	1.2%	0.0%	0.0%	0.0%	0.3%
No response	1	60	0	0	0	0	61
	1.6%	98.4%	0.0%	0.0%	0.0%	0.0%	100.0%
	0.5%	0.6%	0.0%	0.0%	0.0%	0.0%	0.6%
TOTAL	220	9,488	86	107	97	67	10,065
	2.2%	94.3%	0.9%	1.1%	1.0%	0.7%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

EMPLOYMENT STATUS OF CHEMISTS BY CITIZENSHIP

EMPLOYMENT STATUS	CITIZENSHIP: US Citizen	Perm Resident	Other	No Response	TOTAL	
Postdoctorate	186	15	19	0	220	-Count
	84.5%	6.8%	8.6%	0.0%	100.0%	-% of Row
	1.9%	4.6%	39.6%	0.0%	2.2%	-% of Col
Employed Full-time	9,220	301	29	9	9,559	
	96.5%	3.1%	0.3%	0.1%	100.0%	
	94.6%	91.8%	60.4%	81.8%	94.3%	
Unemployed Seeking	82	5	0	0	87	
	94.3%	5.7%	0.0%	0.0%	100.0%	
	0.8%	1.5%	0.0%	0.0%	0.9%	
Unemployed Not seeking	104	2	0	0	106	
	98.1%	1.9%	0.0%	0.0%	100.0%	
	1.1%	0.6%	0.0%	0.0%	1.0%	
Employed Part-time	98	0	0	1	99	
	99.0%	0.0%	0.0%	1.0%	100.0%	
	1.0%	0.0%	0.0%	9.1%	1.0%	
No Response	61	5	0	1	67	
	91.0%	7.5%	0.0%	1.5%	100.0%	
	0.6%	1.5%	0.0%	9.1%	0.7%	
TOTAL	9,751	328	48	11	10,138	
	96.2%	3.2%	0.5%	0.1%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

Table-5.5.1

EMPLOYMENT STATUS OF NON-ACADEMIC CHEMISTS BY MOST RECENT EMPLOYER

EMPLOYER	EMPLOYMENT STATUS						TOTAL
	Postdoc	Employed FT	Unempl Seeking	Unempl Not Seek	Employed PT	No Response	
Mfg Chem	0	2,000	18	23	9	17	2,067 -Count
	0.0%	96.8%	0.9%	1.1%	0.4%	0.8%	100.0% -% of Row
	0.0%	27.9%	26.1%	25.8%	16.4%	35.4%	27.6% -% of Col
Mfg Coatings	0	330	2	4	2	4	342
	0.0%	96.5%	0.6%	1.2%	0.6%	1.2%	100.0%
	0.0%	4.6%	2.9%	4.5%	3.6%	8.3%	4.6%
Mfg Food	0	284	6	1	1	2	294
	0.0%	96.6%	2.0%	0.3%	0.3%	0.7%	100.0%
	0.0%	4.0%	8.7%	1.1%	1.8%	4.2%	3.9%
Mfg Metals	0	181	2	1	1	1	186
	0.0%	97.3%	1.1%	0.5%	0.5%	0.5%	100.0%
	0.0%	2.5%	2.9%	1.1%	1.8%	2.1%	2.5%
Mfg Paper	0	100	0	1	0	0	101
	0.0%	99.0%	0.0%	1.0%	0.0%	0.0%	100.0%
	0.0%	1.4%	0.0%	1.1%	0.0%	0.0%	1.4%
Mfg Petroleum	0	317	3	6	1	2	329
	0.0%	96.4%	0.9%	1.8%	0.3%	0.6%	100.0%
	0.0%	4.4%	4.3%	6.7%	1.8%	4.2%	4.4%
Mfg Pharm	0	966	3	7	1	5	982
	0.0%	98.4%	0.3%	0.7%	0.1%	0.5%	100.0%
	0.0%	13.5%	4.3%	7.9%	1.8%	10.4%	13.1%
Mfg Rubber	0	169	0	3	0	0	172
	0.0%	98.3%	0.0%	1.7%	0.0%	0.0%	100.0%
	0.0%	2.4%	0.0%	3.4%	0.0%	0.0%	2.3%
Mfg Other	1	1,093	14	8	8	7	1,131
	0.1%	96.6%	1.2%	0.7%	0.7%	0.6%	100.0%
	2.5%	15.2%	20.3%	9.0%	14.5%	14.6%	15.1%
Non-Mfg	2	364	6	2	3	1	378
	0.5%	96.3%	1.6%	0.5%	0.8%	0.3%	100.0%
	5.0%	5.1%	8.7%	2.2%	5.5%	2.1%	5.1%
Fed Govt	24	670	3	25	14	0	736
	3.3%	91.0%	0.4%	3.4%	1.9%	0.0%	100.0%
	60.0%	9.3%	4.3%	28.1%	25.5%	0.0%	9.8%
State Govt	0	200	1	2	0	3	206
	0.0%	97.1%	0.5%	1.0%	0.0%	1.5%	100.0%
	0.0%	2.8%	1.4%	2.2%	0.0%	6.3%	2.8%
Hospitals	3	135	2	0	2	1	144
	2.1%	94.4%	1.4%	0.0%	1.4%	0.7%	100.0%
	7.5%	1.9%	2.9%	0.0%	3.6%	2.1%	1.9%
Non-Profit	10	285	6	3	4	1	309
	3.2%	92.2%	1.9%	1.0%	1.3%	0.3%	100.0%
	25.0%	4.0%	8.7%	3.4%	7.3%	2.1%	4.1%
Self-Empl	0	51	3	3	9	2	68
	0.0%	75.0%	4.4%	4.4%	13.2%	2.9%	100.0%
	0.0%	0.7%	4.3%	3.4%	16.4%	4.2%	0.9%
Other Empl	0	32	0	0	0	2	34
	0.0%	94.1%	0.0%	0.0%	0.0%	5.9%	100.0%
	0.0%	0.4%	0.0%	0.0%	0.0%	4.2%	0.5%
TOTAL	40	7,178	69	89	55	48	7,479
	0.5%	96.0%	0.9%	1.2%	0.7%	0.6%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table-5.5.2

EMPLOYMENT STATUS OF ACADEMIC CHEMISTS BY TYPE OF SCHOOL

SCHOOL	EMPLOYMENT STATUS						TOTAL	
	Postdoc	Employed FT	Unempl Seeking	Unempl Not Seek	Employed PT	No Response		
Pvt Doct	63	367	4	2	3	9	448	-Count
	14.1%	81.9%	0.9%	0.4%	0.7%	2.0%	100.0%	-% of Row
	36.6%	16.5%	30.8%	18.2%	7.9%	56.3%	18.1%	-% of Col
Pvt Mast	3	79	0	0	3	0	85	
	3.5%	92.9%	0.0%	0.0%	3.5%	0.0%	100.0%	
	1.7%	3.5%	0.0%	0.0%	7.9%	0.0%	3.4%	
Pvt Bach	1	303	0	1	6	2	313	
	0.3%	96.8%	0.0%	0.3%	1.9%	0.6%	100.0%	
	0.6%	13.6%	0.0%	9.1%	15.8%	12.5%	12.6%	
Pvt Assoc	0	17	0	0	0	0	17	
	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.7%	
Pub Doct	100	853	9	4	17	4	987	
	10.1%	86.4%	0.9%	0.4%	1.7%	0.4%	100.0%	
	58.1%	38.3%	69.2%	36.4%	44.7%	25.0%	39.8%	
Pub Mast	4	186	0	1	2	1	194	
	2.1%	95.9%	0.0%	0.5%	1.0%	0.5%	100.0%	
	2.3%	8.3%	0.0%	9.1%	5.3%	6.3%	7.8%	
Pub Bach	1	162	0	1	2	0	166	
	0.6%	97.6%	0.0%	0.6%	1.2%	0.0%	100.0%	
	0.6%	7.3%	0.0%	9.1%	5.3%	0.0%	6.7%	
Pub Assoc	0	147	0	1	4	0	152	
	0.0%	96.7%	0.0%	0.7%	2.6%	0.0%	100.0%	
	0.0%	6.6%	0.0%	9.1%	10.5%	0.0%	6.1%	
High School	0	115	0	1	1	0	117	
	0.0%	98.3%	0.0%	0.9%	0.9%	0.0%	100.0%	
	0.0%	5.2%	0.0%	9.1%	2.6%	0.0%	4.7%	
TOTAL	172	2,229	13	11	38	16	2,479	
	6.9%	89.9%	0.5%	0.4%	1.5%	0.6%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Table-5.6.0

EMPLOYMENT STATUS OF CHEMISTS BY MOST RECENT WORK FUNCTION

WORK FUNCTION	EMPLOYMENT STATUS						TOTAL
	Postdoc	Employed FT	Unempl Seek	Unempl Not Seek	Employed PT	No Response	
R&D Mgmt	2	1,327	13	17	7	8	1,374 -Count
	0.1%	96.6%	0.9%	1.2%	0.5%	0.6%	100.0% -% of Row
	2.9%	14.5%	16.7%	16.7%	9.0%	12.7%	14.4% -% of Col
Basic Research	36	989	5	11	9	2	1,052
	3.4%	94.0%	0.5%	1.0%	0.9%	0.2%	100.0%
	52.9%	10.8%	6.4%	10.8%	11.5%	3.2%	11.0%
Applied R&D	3	2,430	17	22	6	16	2,494
	0.1%	97.4%	0.7%	0.9%	0.2%	0.6%	100.0%
	4.4%	26.5%	21.8%	21.6%	7.7%	25.4%	26.1%
Gen Mgmt	0	531	0	12	3	3	549
	0.0%	96.7%	0.0%	2.2%	0.5%	0.5%	100.0%
	0.0%	5.8%	0.0%	11.8%	3.8%	4.8%	5.7%
Marketing	0	434	5	4	4	3	450
	0.0%	96.4%	1.1%	0.9%	0.9%	0.7%	100.0%
	0.0%	4.7%	6.4%	3.9%	5.1%	4.8%	4.7%
Prod & QC	0	653	14	8	2	9	686
	0.0%	95.2%	2.0%	1.2%	0.3%	1.3%	100.0%
	0.0%	7.1%	17.9%	7.8%	2.6%	14.3%	7.2%
Forensic	0	389	9	5	7	2	412
	0.0%	94.4%	2.2%	1.2%	1.7%	0.5%	100.0%
	0.0%	4.2%	11.5%	4.9%	9.0%	3.2%	4.3%
Writing	0	85	1	1	3	1	91
	0.0%	93.4%	1.1%	1.1%	3.3%	1.1%	100.0%
	0.0%	0.9%	1.3%	1.0%	3.8%	1.6%	1.0%
Data Proc	0	16	0	0	2	0	18
	0.0%	88.9%	0.0%	0.0%	11.1%	0.0%	100.0%
	0.0%	0.2%	0.0%	0.0%	2.6%	0.0%	0.2%
Consulting	0	112	3	1	7	3	126
	0.0%	88.9%	2.4%	0.8%	5.6%	2.4%	100.0%
	0.0%	1.2%	3.8%	1.0%	9.0%	4.8%	1.3%
Other	0	145	2	5	4	2	158
	0.0%	91.8%	1.3%	3.2%	2.5%	1.3%	100.0%
	0.0%	1.6%	2.6%	4.9%	5.1%	3.2%	1.7%
Teaching in College or University	27	2,072	9	16	24	14	2,162
	1.2%	95.8%	0.4%	0.7%	1.1%	0.6%	100.0%
	39.7%	.6%	11.5%	15.7%	30.8%	22.2%	22.6%
TOTAL	68	9,183	78	102	78	63	9,572
	0.7%	95.9%	0.8%	1.1%	0.8%	0.7%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table-5.7.0

EMPLOYMENT STATUS OF CHEMISTS BY WORK SPECIALTY

SPECIALTY

EMPLOYMENT STATUS.	Biochem	Agric/ Food	Analyt- cal	Environ- ment	Inorgan	Organic	Pharm/ Medici.	Physical/ Theor.	Polymer	General Chem.	Other Chemical	TOTAL	
Postdoctorate	86	4	11	4	21	42	9	33	7	0	3	220	-Count
	39.1%	1.8%	5.0%	1.8%	9.5%	19.1%	4.1%	15.0%	3.2%	0.0%	1.4%	100.0%	-% of Row
	10.3%	0.9%	0.6%	0.6%	3.7%	2.4%	1.1%	4.8%	0.6%	0.0%	0.6%	2.2%	-% of Col
Employed Full-time	721	438	1,853	591	541	1,677	767	641	1,168	654	508	9,559	
	7.5%	4.6%	19.4%	6.2%	5.7%	17.5%	8.0%	6.7%	12.2%	6.8%	5.3%	100.0%	
	86.7%	95.2%	95.7%	94.9%	94.4%	94.7%	96.0%	92.6%	96.1%	94.5%	93.2%	94.3%	
Unemployed Seeking	6	6	21	7	2	11	8	4	6	6	10	87	
	6.9%	6.9%	24.1%	8.0%	2.3%	12.6%	9.2%	4.6%	6.9%	6.9%	11.5%	100.0%	
	0.7%	1.3%	1.1%	1.1%	0.3%	0.6%	1.0%	0.6%	0.5%	0.9%	1.8%	0.9%	
Unemployed Not Seeking	9	4	24	6	2	18	5	6	18	7	7	106	
	8.5%	3.8%	22.6%	5.7%	1.9%	17.0%	4.7%	5.7%	17.0%	6.6%	6.6%	100.0%	
	1.1%	0.9%	1.2%	1.0%	0.3%	1.0%	0.6%	0.9%	1.5%	1.0%	1.3%	1.0%	
Employed Part-time	7	6	14	10	1	15	5	5	6	20	10	99	
	7.1%	6.1%	14.1%	10.1%	1.0%	15.2%	5.1%	5.1%	6.1%	20.2%	10.1%	100.0%	
	0.8%	1.3%	0.7%	1.6%	0.2%	0.8%	0.6%	0.7%	0.5%	2.9%	1.8%	1.0%	
No Response	3	2	13	5	6	8	5	3	10	5	7	67	
	4.5%	3.0%	19.4%	7.5%	9.0%	11.9%	7.5%	4.5%	14.9%	7.5%	10.4%	100.0%	
	0.4%	0.4%	0.7%	0.8%	1.0%	0.5%	0.6%	0.4%	0.8%	0.7%	1.3%	0.7%	
TOTAL	832	460	1,936	623	573	1,771	799	692	1,215	692	545	10,138	
	8.2%	4.5%	19.1%	6.1%	5.7%	17.5%	7.9%	6.8%	12.0%	6.8%	5.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

EMPLOYMENT STATUS OF RESPONDENTS BY GEOGRAPHIC REGION

EMPLOYMENT STATUS

REGION	Postdoc	Employed FT	Unempl Seeking	Unempl Not seek	Employed PT	No Response	TOTAL	
Pacific	38	1,231	22	26	27	10	1,354	-Count
	2.8%	90.9%	1.6%	1.9%	2.0%	0.7%	100.0%	-% of Row
	16.5%	10.4%	18.3%	16.4%	20.0%	11.2%	10.8%	-% of Col
Mountain	17	392	3	9	10	4	435	
	3.9%	90.1%	0.7%	2.1%	2.3%	0.9%	100.0%	
	7.4%	3.3%	2.5%	5.7%	7.4%	4.5%	3.5%	
W N Central	12	682	5	4	6	4	713	
	1.7%	95.7%	0.7%	0.6%	0.8%	0.6%	100.0%	
	5.2%	5.8%	4.2%	2.5%	4.4%	4.5%	5.7%	
W S Central	13	863	11	9	4	10	910	
	1.4%	94.8%	1.2%	1.0%	0.4%	1.1%	100.0%	
	5.6%	7.3%	9.2%	5.7%	3.0%	11.2%	7.2%	
E N Central	37	2,504	21	22	22	14	2,620	
	1.4%	95.6%	0.8%	0.8%	0.8%	0.5%	100.0%	
	16.0%	21.2%	17.5%	13.8%	16.3%	15.7%	20.8%	
E S Central	7	476	2	6	6	3	500	
	1.4%	95.2%	0.4%	1.2%	1.2%	0.6%	100.0%	
	3.0%	4.0%	1.7%	3.8%	4.4%	3.4%	4.0%	
Mid Atlantic	36	2,959	26	30	22	21	3,094	
	1.2%	95.6%	0.8%	1.0%	0.7%	0.7%	100.0%	
	15.6%	25.0%	21.7%	18.9%	16.3%	23.6%	24.6%	
So Atlantic	44	1,831	21	32	29	14	1,971	
	2.2%	92.9%	1.1%	1.6%	1.5%	0.7%	100.0%	
	19.0%	15.5%	17.5%	20.1%	21.5%	15.7%	15.7%	
New England	21	797	8	12	8	2	848	
	2.5%	94.0%	0.9%	1.4%	0.9%	0.2%	100.0%	
	9.1%	6.7%	6.7%	7.5%	5.9%	2.2%	6.7%	
No Response	6	97	1	9	1	7	121	
	5.0%	80.2%	0.8%	7.4%	0.8%	5.8%	100.0%	
	2.6%	0.8%	0.8%	5.7%	0.7%	7.9%	1.0%	
TOTAL	231	11,832	120	159	135	89	12,566	
	1.8%	94.2%	1.0%	1.3%	1.1%	0.7%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Table-6.1.0

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS BY HIGHEST DEGREE

MONTHS UNEMPLOYED	HIGHEST DEGREE Bachelors	Masters	Doctorate	TOTAL
0-1	6	8	7	21 -Count
	28.6%	38.1%	33.3%	100.0% -% of Row
	16.7%	44.4%	21.2%	24.1% -% of Col
2-4	10	4	8	22
	45.5%	18.2%	36.4%	100.0%
	27.8%	22.2%	24.2%	25.3%
5-7	10	3	2	15
	66.7%	20.0%	13.3%	100.0%
	27.8%	16.7%	6.1%	17.2%
8-10	4	0	4	8
	50.0%	0.0%	50.0%	100.0%
	11.1%	0.0%	12.1%	9.2%
11-13	2	1	0	3
	66.7%	33.3%	0.0%	100.0%
	5.6%	5.6%	0.0%	3.4%
14-18	1	1	1	3
	33.3%	33.3%	33.3%	100.0%
	2.8%	5.6%	3.0%	3.4%
19-24	0	1	2	3
	0.0%	33.3%	66.7%	100.0%
	0.0%	5.6%	6.1%	3.4%
25-36	3	0	3	6
	50.0%	0.0%	50.0%	100.0%
	8.3%	0.0%	9.1%	6.9%
>= 37	0	0	6	6
	0.0%	0.0%	100.0%	100.0%
	0.0%	0.0%	18.2%	6.9%
TOTAL	36	18	33	87
	41.4%	20.7%	37.9%	100.0%
	100.0%	100.0%	100.0%	100.0%

Table-6.2.0

EMPLOYMENT STATUS OF UNEMPLOYED CHEMISTS BY LENGTH OF UNEMPLOYMENT

EMPLOYMENT STATUS	MONTHS UNEMPLOYED									TOTAL	
	0-1	2-4	5-7	8-10	11-13	14-18	19-24	25-36	>= 37		
Unemployed Seeking	21	22	15	8	3	3	3	6	6	87	-Count
	24.1%	25.3%	17.2%	9.2%	3.4%	3.4%	3.4%	6.9%	6.9%	100.0%	-% of Row
	32.3%	88.0%	75.0%	47.1%	50.0%	50.0%	23.1%	35.3%	25.0%	45.1%	-% of Col
Unemployed Not Seeking	44	3	5	9	3	3	10	11	18	106	
	41.5%	2.8%	4.7%	8.5%	2.8%	2.8%	9.4%	10.4%	17.0%	100.0%	
	67.7%	12.0%	25.0%	52.9%	50.0%	50.0%	76.9%	64.7%	75.0%	54.9%	
TOTAL	65	25	20	17	6	6	13	17	24	193	
	33.7%	13.0%	10.4%	8.8%	3.1%	3.1%	6.7%	8.8%	12.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-C.1.2

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED NON-ACADEMIC CHEMISTS BY MOST RECENT EMPLOYER

EMPLOYER	MONTHS UNEMPLOYED									
	0-1	2-4	5-7	8-10	11-13	14-18	19-24	25-36	5= 37	TOTAL
Mfg Chem	7	5	1	1	1	0	1	0	2	18 -Count
	38.9%	27.8%	5.6%	5.6%	5.6%	0.0%	5.6%	0.0%	11.1%	100.0% -% of Row
	46.7%	26.3%	7.1%	16.7%	33.3%	0.0%	50.0%	0.0%	40.0%	25.7% -% of Col
Mfg Coating	0	2	1	0	0	0	0	0	0	3
	0.0%	66.7%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
	0.0%	10.5%	7.1%	0.0%	0.0%	0.0	0.0%	0.0%	0.0%	4.3%
Mfg Food	1	2	0	1	1	0	0	1	0	6
	16.7%	33.3%	0.0%	16.7%	16.7%	0.0%	0.0%	16.7%	0.0%	100.0%
	6.7%	10.5%	0.0%	16.7%	33.3%	0.0%	0.0%	33.3%	0.0%	8.6%
Mfg Metals	0	1	0	0	0	1	0	0	0	2
	0.0%	50.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	100.0%
	0.0%	5.3%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	2.9%
Mfg Petroleum	0	0	2	0	0	0	0	1	0	3
	0.0%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	100.0%
	0.0%	0.0%	14.3%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	4.3%
Mfg Pharm	0	2	0	0	0	0	0	0	1	3
	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	100.0%
	0.0%	10.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	4.3%
Mfg Other	3	2	3	1	0	1	1	1	0	14
	21.4%	14.3%	35.7%	7.1%	0.0%	7.1%	7.1%	7.1%	0.0%	100.0%
	20.0%	10.5%	35.7%	16.7%	0.0%	33.3%	50.0%	33.3%	0.0%	20.0%
Non-Mfg	1	0	2	2	0	0	0	0	1	6
	16.7%	0.0%	33.3%	33.3%	0.0%	0.0%	0.0%	0.0%	16.7%	100.0%
	6.7%	0.0%	14.3%	33.3%	0.0%	0.0%	0.0%	0.0%	20.0%	8.6%
Fed Govt	0	1	1	1	0	0	0	0	0	3
	0.0%	33.3%	33.3%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
	0.0%	5.3%	7.1%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	4.3%
State Govt	1	0	0	0	0	0	0	0	0	1
	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%
Hospitals	1	1	0	0	0	0	0	0	0	2
	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
	6.7%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%
Non-Profit	1	2	1	0	1	0	0	0	1	6
	16.7%	33.3%	16.7%	0.0%	16.7%	0.0%	0.0%	0.0%	16.7%	100.0%
	6.7%	10.5%	7.1%	0.0%	33.3%	0.0%	0.0%	0.0%	20.0%	8.6%
Self-employed	0	1	1	0	0	1	0	0	0	3
	0.0%	33.3%	33.3%	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	100.0%
	0.0%	5.3%	7.1%	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	4.3%
TOTAL	15	19	14	6	3	3	2	3	5	70
	21.4%	27.1%	20.0%	8.6%	4.3%	4.3%	2.9%	4.3%	7.1%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table-6.4.0

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS BY AGE LEVEL

MONTHS UNEMPLOYED	AGE LEVEL 20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	>= 65	TOTAL
0-1	1 4.8% 25.0%	3 14.3% 18.8%	2 9.5% 18.2%	1 4.8% 8.3%	2 9.5% 25.0%	4 19.0% 50.0%	4 19.0% 30.8%	3 14.3% 33.3%	0 0.0% 0.0%	1 4.8% 100.0%	21 -Count 100.0% -% of Row 24.1% -% of Col
2-4	1 4.5% 25.0%	4 18.2% 25.0%	3 13.6% 27.3%	3 13.6% 25.0%	2 9.1% 25.0%	1 4.5% 12.5%	6 27.3% 46.2%	1 4.5% 11.1%	1 4.5% 20.0%	0 0.0% 0.0%	22 100.0% 25.3%
5-7	2 13.3% 50.0%	4 26.7% 25.0%	4 26.7% 36.4%	1 6.7% 8.3%	1 6.7% 12.5%	0 0.0% 0.0%	1 6.7% 7.7%	1 6.7% 11.1%	1 6.7% 20.0%	0 0.0% 0.0%	15 100.0% 17.2%
8-10	0 0.0% 0.0%	2 25.0% 12.5%	0 0.0% 0.0%	2 25.0% 16.7%	1 12.5% 12.5%	0 0.0% 0.0%	1 12.5% 7.7%	2 25.0% 22.2%	0 0.0% 0.0%	0 0.0% 0.0%	8 100.0% 9.2%
11-13	0 0.0% 0.0%	2 66.7% 12.5%	0 0.0% 0.0%	1 33.3% 8.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3 100.0% 3.4%
14-18	0 0.0% 0.0%	1 33.3% 6.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 12.5%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 20.0%	0 0.0% 0.0%	3 100.0% 3.4%
19-24	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 9.1%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 12.5%	1 33.3% 7.7%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3 100.0% 3.4%
25-36	0 0.0% 0.0%	0 0.0% 0.0%	1 16.7% 9.1%	2 33.3% 16.7%	1 16.7% 12.5%	1 16.7% 12.5%	0 0.0% 0.0%	1 16.7% 11.1%	0 0.0% 0.0%	0 0.0% 0.0%	6 100.0% 6.9%
>= 37	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 33.3% 16.7%	1 16.7% 12.5%	0 0.0% 0.0%	0 0.0% 0.0%	1 16.7% 11.1%	2 33.3% 40.0%	0 0.0% 0.0%	6 100.0% 6.9%
TOTAL	4 4.6% 100.0%	16 18.4% 100.0%	11 12.6% 100.0%	12 13.8% 100.0%	8 9.2% 100.0%	8 9.2% 100.0%	13 14.9% 100.0%	9 10.3% 100.0%	5 5.7% 100.0%	1 1.1% 100.0%	87 100.0% 100.0%

Table-6.5.0

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED NON-ACADEMIC CHEMISTS BY WORK FUNCTION

MONTHS UNEMPLOYED	WORK FUNCTION									TOTAL	
	R&D Mgm	Basic Research	Applied R&D	Market-ing	Prod & QC	Foren-sic	Writing	Consult-ing	Other		
0-1	2	2	3	1	4	1	1	0	2	16	-Count
	12.5%	12.5%	18.8%	6.3%	25.0%	6.3%	6.3%	0.0%	12.5%	100.0%	-% of Row
	15.4%	40.0%	17.6%	20.0%	26.7%	11.1%	100.0%	0.0%	100.0%	22.9%	-% of Col
2-4	4	1	4	2	4	3	0	1	0	19	
	21.1%	5.3%	21.1%	10.5%	21.1%	15.8%	0.0%	5.3%	0.0%	100.0%	
	30.8%	20.0%	23.5%	40.0%	26.7%	33.3%	0.0%	33.3%	0.0%	27.1%	
5-7	1	1	4	1	3	2	0	1	0	13	
	7.7%	7.7%	30.8%	7.7%	23.1%	15.4%	0.0%	7.7%	0.0%	100.0%	
	7.7%	20.0%	23.5%	20.0%	20.0%	22.2%	0.0%	33.3%	0.0%	18.6%	
8-10	2	0	3	0	0	1	0	0	0	6	
	33.3%	0.0%	50.0%	0.0%	0.0%	0.0%	16.7%	0.0%	0.0%	100.0%	
	15.4%	0.0%	17.6%	0.0%	0.0%	11.1%	0.0%	0.0%	0.0%	8.6%	
11-13	1	0	1	0	0	1	0	0	0	3	
	33.3%	0.0%	33.3%	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	100.0%	
	7.7%	0.0%	5.9%	0.0%	0.0%	11.1%	0.0%	0.0%	0.0%	4.3%	
14-18	0	0	0	0	2	0	0	1	0	3	
	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%	0.0%	33.3%	0.0%	100.0%	
	0.0%	0.0%	0.0%	0.0%	13.3%	0.0%	0.0%	33.3%	0.0%	4.3%	
19-24	2	0	0	0	0	0	0	0	0	2	
	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
	15.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%	
25-36	0	1	0	0	2	0	0	0	0	3	
	0.0%	33.3%	0.0%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	100.0%	
	0.0%	20.0%	0.0%	0.0%	13.3%	0.0%	0.0%	0.0%	0.0%	4.3%	
>= 37	1	0	2	1	0	1	0	0	0	5	
	20.0%	0.0%	40.0%	20.0%	0.0%	20.0%	0.0%	0.0%	0.0%	100.0%	
	7.7%	0.0%	11.8%	20.0%	0.0%	11.1%	0.0%	0.0%	0.0%	7.1%	
TOTAL	13	5	17	5	15	9	1	3	2	70	
	18.6%	7.1%	24.3%	7.1%	21.4%	12.9%	1.4%	4.3%	2.9%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Table-6.6.0

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS BY WORK SPECIALTY

SPECIALTY

MONTHS UNEMPLOYED	Bio-chem.	Agric/ Food	Analyt-ical	Environ-mental	In-organic	Organic	Pharm/ Medicl.	Physical Theor.	Polymer Macro.	General Chem.	Other Chem.	TOTAL
0-1	1	1	3	4	1	3	2	1	2	2	1	21 -Count
	4.8%	4.8%	14.3%	19.0%	4.8%	14.3%	9.5%	4.8%	9.5%	9.5%	4.8%	100.0% -% of Row
	16.7%	16.7%	14.3%	57.1%	50.0%	27.3%	25.0%	25.0%	33.3%	33.3%	10.0%	24.1% -% of Col
2-4	1	2	6	1	0	3	2	0	2	1	4	22
	4.5%	9.1%	27.3%	4.5%	0.0%	13.6%	9.1%	0.0%	9.1%	4.5%	18.2%	100.0%
	16.7%	33.3%	28.6%	14.3%	0.0%	27.3%	25.0%	0.0%	33.3%	16.7%	40.0%	25.3%
5-7	0	7	1	0	2	2	1	0	1	1	0	15
	0.0%	0.0%	46.7%	6.7%	0.0%	13.3%	13.3%	6.7%	0.0%	6.7%	6.7%	100.0%
	0.0%	0.0%	33.3%	14.3%	0.0%	18.2%	25.0%	25.0%	0.0%	16.7%	10.0%	17.2%
8-10	1	1	1	1	1	0	1	1	0	0	1	8
	12.5%	12.5%	12.5%	12.5%	12.5%	0.0%	12.5%	12.5%	0.0%	0.0%	12.5%	100.0%
	16.7%	16.7%	4.8%	14.3%	50.0%	0.0%	12.5%	25.0%	0.0%	0.0%	10.0%	9.2%
11-13	0	1	1	0	0	0	0	0	0	0	1	3
	0.0%	33.3%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	100.0%
	0.0%	16.7%	4.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%	3.4%
14-18	0	0	1	0	0	0	0	1	0	1	0	3
	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	33.3%	0.0%	0.0%	100.0%
	0.0%	0.0%	4.8%	0.0%	0.0%	0.0%	0.0%	25.0%	0.0%	16.7%	0.0%	3.4%
19-24	0	0	0	0	0	1	0	0	1	1	0	3
	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	33.3%	33.3%	0.0%	100.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	9.1%	0.0%	0.0%	16.7%	16.7%	0.0%	3.4%
25-36	3	1	1	0	0	0	0	0	0	0	1	6
	50.0%	16.7%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.7%	100.0%
	50.0%	16.7%	4.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%	6.9%
>= 37	0	0	1	0	0	2	1	0	1	0	1	6
	0.0%	0.0%	16.7%	0.0%	0.0%	33.3%	16.7%	0.0%	16.7%	0.0%	16.7%	100.0%
	0.0%	0.0%	4.8%	0.0%	0.0%	18.2%	12.5%	0.0%	16.7%	0.0%	10.0%	6.9%
TOTAL	6	6	21	7	2	11	8	4	6	6	10	87
	6.9%	6.9%	24.1%	8.0%	2.3%	12.6%	9.2%	4.6%	6.9%	6.9%	11.5%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table-6.7.0

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS BY GEOGRAPHIC REGION

MONTHS UNEMPLOYED	REGION										
	Pacific	Mountai	W N Cen	W S Cen	E N Cen	E S Cen	Mid Atl	So Atla	New Eng	No Resp	TOTAL
0-1	2	1	1	3	1	0	6	3	3	1	21 -Count
	9.5%	4.8%	4.8%	14.3%	4.8%	0.0%	28.6%	14.3%	14.3%	4.8%	100.0% -% of Row
	12.5%	33.3%	33.3%	42.9%	6.7%	0.0%	30.0%	20.0%	50.0%	100.0%	24.1% -% of Col
2-4	2	0	0	1	7	0	8	2	2	0	22
	9.1%	0.0%	0.0%	4.5%	31.8%	0.0%	36.4%	9.1%	9.1%	0.0%	100.0%
	12.5%	0.0%	0.0%	14.3%	46.7%	0.0%	40.0%	13.3%	33.3%	0.0%	25.3%
5-7	7	1	0	1	0	0	2	3	1	0	15
	46.7%	6.7%	0.0%	6.7%	0.0%	0.0%	13.3%	20.0%	6.7%	0.0%	100.0%
	43.8%	33.3%	0.0%	14.3%	0.0%	0.0%	10.0%	20.0%	16.7%	0.0%	17.2%
8-10	1	0	0	1	3	0	1	2	0	0	8
	12.5%	0.0%	0.0%	12.5%	37.5%	0.0%	12.5%	25.0%	0.0%	0.0%	100.0%
	6.3%	0.0%	0.0%	14.3%	20.0%	0.0%	5.0%	13.3%	0.0%	0.0%	9.2%
11-13	0	0	0	1	0	1	1	0	0	0	3
	0.0%	0.0%	0.0%	33.3%	0.0%	33.3%	33.3%	0.0%	0.0%	0.0%	100.0%
	0.0%	0.0%	0.0%	14.3%	0.0%	100.0%	5.0%	0.0%	0.0%	0.0%	3.4%
14-18	0	0	0	0	0	0	1	2	0	0	3
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	66.7%	0.0%	0.0%	100.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.0%	13.3%	0.0%	0.0%	3.4%
19-24	1	0	0	0	1	0	0	1	0	0	3
	33.3%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	33.3%	0.0%	0.0%	100.0%
	6.3%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	6.7%	0.0%	0.0%	3.4%
25-36	1	0	1	0	3	0	0	1	0	0	6
	16.7%	0.0%	16.7%	0.0%	50.0%	0.0%	0.0%	16.7%	0.0%	0.0%	100.0%
	6.3%	0.0%	33.3%	0.0%	20.0%	0.0%	0.0%	6.7%	0.0%	0.0%	6.9%
>= 37	2	1	1	0	0	0	1	1	0	0	6
	33.3%	16.7%	16.7%	0.0%	0.0%	0.0%	16.7%	16.7%	0.0%	0.0%	100.0%
	12.5%	33.3%	33.3%	0.0%	0.0%	0.0%	5.0%	6.7%	0.0%	0.0%	6.9%
TOTAL	16	3	3	7	15	1	20	15	6	1	87
	18.4%	3.4%	3.4%	8.0%	17.2%	1.1%	23.0%	17.2%	6.9%	1.1%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table-7.1.0

RESPONDENTS TO THE 1980 ACS MEMBERSHIP SURVEY
by SEX and USE IN SALARIES 1980 REPORT

	SEX				
SAMPLE	Men	Women	No Resp	TOTAL	
Used in tables for Salaries 1980	11,040	1,248	259	12,547	-Count
	88.0%	9.9%	2.1%	100.0%	-% of Row
	100.0%	26.8%	89.6%	78.5%	-% of Col
Not used in tables for Salaries 1980	0	3,416	30	3,446	
	0.0%	99.1%	0.9%	100.0%	
	0.0%	73.2%	10.4%	21.5%	
TOTAL	11,040	4,664	289	15,993	
	69.0%	29.2%	1.8%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

SURVEY RESPONDENTS BY SEX AND HIGHEST DEGREE

HIGHEST DEGREE	SEX				
	Men	Women	No Resp	TOTAL	
Bachelors	2,854	485	72	3,411	-Count
	83.7%	14.2%	2.1%	100.0%	-% of Row
	25.9%	38.9%	27.8%	27.2%	-% of Col
Masters	2,046	353	55	2,454	
	83.4%	14.4%	2.2%	100.0%	
	18.5%	28.3%	21.2%	19.6%	
Doctorate	6,140	410	132	6,682	
	91.9%	6.1%	2.0%	100.0%	
	55.6%	32.9%	51.0%	53.3%	
TOTAL	11,040	1,248	259	12,547	
	88.0%	9.9%	2.1%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table-7.3.0

SURVEY RESPONDENTS BY AGE AND HIGHEST DEGREE

AGE LEVEL	HIGHEST DEGREE			TOTAL	
	Bachelors	Masters	Doctorate		
20-24	231	22	4	257	-Count
	89.9%	8.6%	1.6%	100.0%	-% of Row
	6.8%	0.9%	0.1%	2.0%	-% of Col
25-29	530	312	391	1,233	
	43.0%	25.3%	31.7%	100.0%	
	15.5%	12.7%	5.9%	9.8%	
30-34	385	380	1,015	1,780	
	21.6%	21.3%	57.0%	100.0%	
	11.3%	15.5%	15.2%	14.2%	
35-39	318	328	1,296	1,942	
	16.4%	16.9%	66.7%	100.0%	
	9.3%	13.4%	19.4%	15.5%	
40-44	299	254	1,031	1,584	
	18.9%	16.0%	65.1%	100.0%	
	8.8%	10.4%	15.4%	12.6%	
45-49	317	261	871	1,449	
	21.9%	18.0%	60.1%	100.0%	
	9.3%	10.6%	13.0%	11.5%	
50-54	453	319	776	1,548	
	29.3%	20.6%	50.1%	100.0%	
	13.3%	13.0%	11.6%	12.3%	
55-59	499	351	754	1,604	
	31.1%	21.9%	47.0%	100.0%	
	14.6%	14.3%	11.3%	12.8%	
60-64	355	212	510	1,077	
	33.0%	19.7%	47.4%	100.0%	
	10.4%	8.6%	7.6%	8.6%	
>= 65	5	6	16	27	
	18.5%	22.2%	59.3%	100.0%	
	0.1%	0.2%	0.2%	0.2%	
No Response	19	9	18	46	
	41.3%	19.6%	39.1%	100.0%	
	0.6%	0.4%	0.3%	0.4%	
TOTAL	3,411	2,454	6,682	12,547	
	27.2%	19.6%	53.3%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table-7.4.0

SURVEY RESPONDENTS BY MAJOR FIELD AND HIGHEST DEGREE

HIGHEST DEGREE	MAJOR FIELD			TOTAL	
	Chemists	Chemical Engineers	Others		
Bachelors	2,581	450	380	3,411	-Count
	75.7%	13.2%	11.1%	100.0%	-% of Row
	25.5%	36.6%	32.3%	27.2%	-% of Col
Masters	1,791	360	303	2,454	
	73.0%	14.7%	12.3%	100.0%	
	17.7%	29.2%	25.7%	19.6%	
Doctorate	5,766	421	495	6,682	
	86.3%	6.3%	7.4%	100.0%	
	56.9%	34.2%	42.0%	53.3%	
TOTAL	10,138	1,231	1,178	12,547	
	80.8%	9.8%	9.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table-7.5.0

SURVEY RESPONDENTS BY SPECIALTY AND HIGHEST DEGREE

SPECIALTY	HIGHEST DEGREE Bachelors	Masters	Doctorate	TOTAL	
Chemical Engineering	450	360	421	1,231	-Count
	36.6%	29.2%	34.2%	100.0%	-% of Row
	13.2%	14.7%	6.3%	9.8%	-% of Col
Biochemistry	53	66	713	832	
	6.4%	7.9%	85.7%	100.0%	
	1.6%	2.7%	10.7%	6.6%	
Agricultural/ Food	138	74	248	460	
	30.0%	16.1%	53.9%	100.0%	
	4.0%	3.0%	3.7%	3.7%	
Analytical	822	433	681	1,936	
	42.5%	22.4%	35.2%	100.0%	
	24.1%	17.6%	10.2%	15.4%	
Environmental	211	155	257	623	
	33.9%	24.9%	41.3%	100.0%	
	6.2%	6.3%	3.8%	5.0%	
Inorganic	97	73	403	573	
	16.9%	12.7%	70.3%	100.0%	
	2.8%	3.0%	6.0%	4.6%	
Organic	302	257	1,212	1,771	
	17.1%	14.5%	68.4%	100.0%	
	8.9%	10.5%	18.1%	14.1%	
Pharmaceutical/ medicinal	171	146	482	799	
	21.4%	18.3%	60.3%	100.0%	
	5.0%	5.9%	7.2%	6.4%	
Physical/ Theoretical	49	30	613	692	
	7.1%	4.3%	88.6%	100.0%	
	1.4%	1.2%	9.2%	5.5%	
Polymer/ Macromolecular	345	219	651	1,215	
	28.4%	18.0%	53.6%	100.0%	
	10.1%	8.9%	9.7%	9.7%	
General	191	218	283	692	
	27.6%	31.5%	40.9%	100.0%	
	5.6%	8.9%	4.2%	5.5%	
Other Chemical	202	120	223	545	
	37.1%	22.0%	40.9%	100.0%	
	5.9%	4.9%	3.3%	4.3%	
Non-Chemical	284	245	392	921	
	30.8%	26.6%	42.6%	100.0%	
	8.3%	10.0%	5.9%	7.3%	
No Response	96	58	103	257	
	37.4%	22.6%	40.1%	100.0%	
	2.8%	2.4%	1.5%	2.0%	
TOTAL	3,411	2,454	6,682	12,547	
	27.2%	19.6%	53.3%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

SURVEY RESPONDENTS BY MINORITY STATUS AND HIGHEST DEGREE

RACE	HIGHEST DEGREE Bachelors	Masters	Doctorate	TOTAL	
White	3,223	2,268	6,129	11,620	-Count
	27.7%	19.5%	52.7%	100.0%	-% of Row
	94.5%	92.4%	91.7%	92.6%	-% of Col
Black	41	35	42	118	
	34.7%	29.7%	35.6%	100.0%	
	1.2%	1.4%	0.6%	0.9%	
American Indian or Alaskan Native	5	2	6	13	
	38.5%	15.4%	46.2%	100.0%	
	0.1%	0.1%	0.1%	0.1%	
Asian or Pacific Islander	82	100	407	589	
	13.9%	17.0%	69.1%	100.0%	
	2.4%	4.1%	6.1%	4.7%	
Hispanic	21	22	32	75	
	28.0%	29.3%	42.7%	100.0%	
	0.6%	0.9%	0.5%	0.6%	
None of Above	18	7	20	45	
	40.0%	15.6%	44.4%	100.0%	
	0.5%	0.3%	0.3%	0.4%	
No Response	21	20	46	87	
	24.1%	23.0%	52.9%	100.0%	
	0.6%	0.8%	0.7%	0.7%	
TOTAL	3,411	2,454	6,682	12,547	
	27.2%	19.6%	53.3%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table-7.7.0

SURVEY RESPONDENTS BY CITIZENSHIP AND MINORITY STATUS

CITIZENSHIP	MINORITY STATUS							TOTAL
	White	Black	American Indian	Asian/ Pacific	Hispanic	None of Above	No Response	
US Citizen	11,396	110	13	394	66	41	74	12,094 -Count
	94.2%	0.9%	0.1%	3.3%	0.5%	0.3%	0.6%	100.0% -% of Row
	98.1%	93.2%	100.0%	66.9%	88.0%	91.1%	85.1%	96.4% -% of Col
Permanent Resident	179	6	0	171	9	3	1	369
	48.5%	1.6%	0.0%	46.3%	2.4%	0.8%	0.3%	100.0%
	1.5%	5.1%	0.0%	29.0%	12.0%	6.7%	1.1%	2.9%
Other	36	1	0	23	0	0	0	60
	60.0%	1.7%	0.0%	38.3%	0.0%	0.0%	0.0%	100.0%
	0.3%	0.8%	0.0%	3.9%	0.0%	0.0%	0.0%	0.5%
No Response	9	1	0	1	0	1	12	24
	37.5%	4.2%	0.0%	4.2%	0.0%	4.2%	50.0%	100.0%
	0.1%	0.8%	0.0%	0.2%	0.0%	2.2%	13.8%	0.2%
TOTAL	11,620	118	13	589	75	45	87	12,547
	92.6%	0.9%	0.1%	4.7%	0.6%	0.4%	0.7%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table-8.1.0

AGE LEVEL OF POST DOCTORAL CHEMISTS BY YEARS SINCE BS

AGE LEVEL	YEARS SINCE BS											
	0-2	2-4	5-7	8-12	13-17	18-22	23-27	28-32	33-37	38-42	> 42	TOTAL
20-24	1	0	1	0	0	0	0	0	0	0	0	2 -Count
	50.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0% -% of Row
	50.0%	0.0%	1.4%	0.0%	0.0%	0.0%	***.*%	0.0%	***.*%	***.*%	0.0%	0.9% -% of Col
25-29	1	2	66	27	0	0	0	0	0	0	2	98
	1.0%	2.0%	67.3%	27.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0%	100.0%
	50.0%	100.0%	94.3%	28.1%	0.0%	0.0%	***.*%	0.0%	***.*%	***.*%	18.2%	44.5%
30-34	0	0	3	65	6	0	0	0	0	0	4	78
	0.0%	0.0%	3.8%	83.3%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	5.1%	100.0%
	0.0%	0.0%	4.3%	67.7%	20.0%	0.0%	***.*%	0.0%	***.*%	***.*%	36.4%	35.5%
35-39	0	0	0	3	21	2	0	0	0	0	3	29
	0.0%	0.0%	0.0%	10.3%	72.4%	6.9%	0.0%	0.0%	0.0%	0.0%	10.3%	100.0%
	0.0%	0.0%	0.0%	3.1%	70.0%	40.0%	***.*%	0.0%	***.*%	***.*%	27.3%	13.2%
40-44	0	0	0	1	3	3	0	0	0	0	1	8
	0.0%	0.0%	0.0%	12.5%	37.5%	37.5%	0.0%	0.0%	0.0%	0.0%	12.5%	100.0%
	0.0%	0.0%	0.0%	1.0%	10.0%	60.0%	***.*%	0.0%	***.*%	***.*%	9.1%	3.6%
45-49	0	0	0	0	0	0	0	0	0	0	1	1
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	***.*%	0.0%	***.*%	***.*%	9.1%	0.5%
50-54	0	0	0	0	0	0	0	3	0	0	0	3
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	***.*%	75.0%	***.*%	***.*%	0.0%	1.4%
55-59	0	0	0	0	0	0	0	1	0	0	0	1
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	***.*%	25.0%	***.*%	***.*%	0.0%	0.5%
TOTAL	2	2	70	96	30	5	0	4	0	0	11	220
	0.9%	0.9%	31.8%	43.6%	13.6%	2.3%	0.0%	1.8%	0.0%	0.0%	5.0%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	***.*%	100.0%	***.*%	***.*%	100.0%	100.0%

Table-8.2.0

MINORITY STATUS OF POSTDOCTORAL CHEMISTS BY CITIZENSHIP

MINORITY STATUS	CITIZENSHIP: US Citizen	Perm Resident	Other	TOTAL	
White	174	5	9	188	-Count
	92.6%	2.7%	4.8%	100.0%	-% of Row
	93.5%	33.3%	47.4%	85.5%	-% of Col
Black	1	1	0	2	
	50.0%	50.0%	0.0%	100.0%	
	0.5%	6.7%	0.0%	0.9%	
Amer Indian	0	0	0	0	
	***.*%	***.*%	***.*%	***.*%	
	0.0%	0.0%	0.0%	0.0%	
Asian or Pacific Islander	8	9	10	27	
	29.6%	33.3%	37.0%	100.0%	
	4.3%	60.0%	52.6%	12.3%	
Hispanic	1	0	0	1	
	100.0%	0.0%	0.0%	100.0%	
	0.5%	0.0%	0.0%	0.5%	
None of Above	1	0	0	1	
	100.0%	0.0%	0.0%	100.0%	
	0.5%	0.0%	0.0%	0.5%	
No Response	1	0	0	1	
	100.0%	0.0%	0.0%	100.0%	
	0.5%	0.0%	0.0%	0.5%	
TOTAL	186	15	19	220	
	84.5%	6.8%	8.6%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

POST-DOCTORAL RESPONDENTS BY ACADEMIC EMPLOYER AND MINORITY STATUS

MINORITY STATUS

SCHOOL	White	Black	American Indian	Asian/ Pacific	Hispanic	None of Above	No Response	TOTAL
Private Doctorate	62 91.2% 41.3%	0 0.0% 0.0%	0 0.0% ***.*%	5 7.4% 21.7%	0 0.0% 0.0%	0 0.0% 0.0%	1 1.5% 100.0%	68 - Count 100.0% - % of Row 38.4% - % of Col
Private Masters	2 66.7% 1.3%	0 0.0% 0.0%	0 0.0% ***.*%	1 33.3% 4.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3 100.0% 1.7%
Private Bachelors	1 100.0% 0.7%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 0.6%
Private Associate	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%
Public Doctorate	80 80.0% 53.3%	1 1.0% 100.0%	0 0.0% ***.*%	17 17.0% 73.9%	1 1.0% 100.0%	1 1.0% 100.0%	0 0.0% 0.0%	100 100.0% 56.5%
Public Masters	4 100.0% 2.7%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	4 100.0% 2.3%
Public Bachelors	1 100.0% 0.7%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 0.6%
Public Associate	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%
TOTAL	150 84.7% 100.0%	1 0.6% 100.0%	0 0.0% ***.*%	23 13.0% 100.0%	1 0.6% 100.0%	1 0.6% 100.0%	1 0.6% 100.0%	177 100.0% 100.0%

Table-8.4.0

SALARIES OF POST DOCTORAL CHEMISTS by TYPE OF SCHOOL and YEARS SINCE BACHELOR'S DEGREE

	YEARS SINCE BS												
SCHOOL	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL	
Pvt Doct	---	---	10,800	12,000	---	---	---	---	---	---	---	11,200	-Median
	---	11,200	10,215	12,379	16,500	---	---	---	---	---	12,000	11,495	-Mean
	---	---	3,684	1,500	7,996	---	---	---	---	---	4,262	4,007	-Std Dev
	0	1	34	19	5	0	0	0	0	0	4	63	-Count
Pub Doct	---	---	12,000	12,750	---	---	---	---	---	---	---	12,500	
	---	---	12,500	12,157	12,850	15,000	12,700	---	---	---	13,971	12,570	
	---	---	3,198	4,096	4,496	---	---	---	---	---	2,508	3,531	
	0	0	51	28	10	1	1	0	0	0	7	98	

American Chemical Society

OFFICE OF THE
EXECUTIVE DIRECTOR

Raymond P. Mariella, *Executive Director*

1155 SIXTEENTH STREET, N.W.
WASHINGTON, D.C. 20036
Phone (202) 872-4455

February 25, 1980

Dear Member:

The American Chemical Society annually reports on the economic status of the chemical profession as reflected in a sample survey of its U.S. membership. You are one of approximately 26,000 U.S. members I am asking to participate in this survey by completing the attached survey form, developed with the help of the Council Committee on Economic Status.

Five years have elapsed since the Society has made a special effort to measure the economic status of its women members. The Women Chemists Committee has therefore requested that this year's survey make a special effort to enhance our information about women. Accordingly, the sample this year includes nearly all the women in the Society so that various subgroups of the sample will include enough women to provide useful statistics.

Because a high response rate is needed to assure accurate results, your participation will be an important service to your colleagues. Please take a few minutes now, while the survey form is before you, to fill out the questionnaire and return it promptly in the enclosed business reply envelope. The procedure is confidential, and the information you provide will be combined with returns from other members so that only aggregated data will be available. A summary of the findings will appear in CHEMICAL AND ENGINEERING NEWS later this spring.

Please feel free to use the back of the questionnaire for whatever comments or suggestions you might care to make.

Thank you for your assistance.

Sincerely yours,

Raymond P Mariella

Raymond P. Mariella

RPM:llj
Enclosure

AMERICAN CHEMICAL SOCIETY

1980 Comprehensive Salary and Employment Status Survey

A. For EACH degree you have earned, please indicate the FIELD and LEVEL of the degree by writing the YEAR you received it in the appropriate row and column below.

FIELD	LEVEL		
	Bachelors	Masters	Doctorate
Chemistry	19 _ _ [11]	19 _ _ [21]	19 _ _ [31]
Biochemistry	19 _ _ [12]	19 _ _ [22]	19 _ _ [32]
Chemical Engineering	19 _ _ [13]	19 _ _ [23]	19 _ _ [33]
Business	19 _ _ [14]	19 _ _ [24]	19 _ _ [34]
Other	19 _ _ [15]	19 _ _ [25]	19 _ _ [35]

B. Employment status (Please check the one response that most aptly describes your status as of March 1, 1980.):

Employment status:

- Postdoctoral or other fellowship . . . . [1] ☐
- Employed full-time . . . . . [2] ☐

→ Principal ANNUAL SALARY as of March 1, 1980. (Do not include payments for second job, overtime work, summer teaching, or other supplemental employment.)

$ _____ per YEAR

- Not employed and seeking employment . . . . . [3] ☐
- Not employed and not seeking employment . . . . . [4] ☐
- Employed part-time . . . . . [5] ☐

→ Time worked: _____ % of full-time position

Salary: $ _____ per MONTH

C. If you were unemployed on March 1, how long had you been unemployed? _____ months

D. Since receiving your bachelor's degree have you had any periods when you were neither employed nor attending school?

No [1] ☐ Yes [2] ☐ Total time: _____ years _____ months

If your current (or most recent) full-time employment is for an academic institution, please skip to top of next page.

E1. Current (or most recent) full-time employer:

Private industry
- Manufacturing
  - Chemicals . . . . . [1] ☐
  - Coatings . . . . . [2] ☐
  - Food . . . . . [3] ☐
  - Metals, minerals . . . . . [4] ☐
  - Paper . . . . . [5] ☐
  - Petroleum . . . . . [6] ☐
  - Pharmaceuticals, personal care . . . . . [7] ☐
  - Rubber . . . . . [8] ☐
  - Other manufactures . . . . . [9] ☐
- Non-manufacturing . . . . . [10] ☐

Government
- Federal . . . . . [11] ☐
- State or local . . . . . [12] ☐

Hospital, independent laboratory . . . . [13] ☐

Other non-profit organization, other research institution . . . . . [14] ☐

Self-employed . . . . . [15] ☐

Other employment . . . . . [16] ☐

E2. Work Function (Please check only one.):

Research and Development
- Management or administration of R&D . . . [1] ☐
- Basic research . . . . . [2] ☐
- Applied research, development, design . . [3] ☐

General management, Administration (other than research and development) . . [4] ☐

Marketing, Sales, Purchasing, Technical service, Economic evaluation . . . . . [5] ☐

Production, Quality control. . . . . [6] ☐

Forensic analysis, Other laboratory analysis . . . . . [7] ☐

Writing, Editing, Abstracting, Library services . . . . . [8] ☐

Data processing . . . . . [9] ☐

Consulting . . . . . [10] ☐

Other . . . . . [11] ☐

Skip to question G.

F1. Current or most recent full-time employer:

Private college or university where the highest degree offered in chemical science is:
- Doctorate . . . . . 1 ☐
- Masters . . . . . 2 ☐
- Bachelors . . . . . 3 ☐
- Associate . . . . . 4 ☐

Public college or university where the highest degree offered in chemical science is:
- Doctorate . . . . . 5 ☐
- Masters . . . . . 6 ☐
- Bachelors . . . . . 7 ☐
- Associate . . . . . 8 ☐

High school or other school . . . . . 9 ☐

F2. Rank:
- Professor . . . . . 1 ☐
- Associate professor . . . . . 2 ☐
- Assistant professor . . . . . 3 ☐
- Instructor or lecturer . . . . . 4 ☐
- Non-faculty research associate . . . . 5 ☐
- Unranked faculty member . . . . . 6 ☐

F3. Have you been granted tenure? Yes 1 ☐ No 2 ☐

G. How long have you worked for your current employer? _____ years _____ months

H. Check the one specialty most closely related to your present (or most recent) principal employment:

- Chemical engineering . . . . . 1 ☐
- Biochemistry . . . . . 2 ☐
- Agricultural/food chemistry . . . 3 ☐
- Analytical chemistry . . . . . 4 ☐
- Environmental chemistry . . . . . 5 ☐
- Inorganic chemistry . . . . . 6 ☐
- Organic chemistry . . . . . 7 ☐
- Pharmaceutical/medicinal/ clinical chemistry . . . . . 8 ☐
- Physical/theoretical chemistry . . . . 9 ☐
- Polymer/macromolecular chemistry . . 10 ☐
- General chemistry . . . . . 11 ☐
- Other chemical specialty . . . . . 12 ☐
- Non-chemical specialty . . . . . 13 ☐

I. Number of subordinates reporting to you directly or through others (If none, please write "0".):

Professionals _____ Technicians _____ Others _____

J. Sex: Male 1 ☐ Female 2 ☐

K. Are you married? Yes 1 ☐ No 2 ☐

L. Age at last birthday before March 1, 1980: _____

M. State of residence: _____

N. Citizenship or visa status:
- U. S. citizen . . . . . 1 ☐
- U. S. permanent resident visa . . . . 2 ☐
- Other . . . . . 3 ☐

O. Racial or ethnic group:
- White . . . . . 1 ☐
- Black (not of Hispanic origin) . . . . . 2 ☐
- American Indian or Alaskan Native . . . . . 3 ☐
- Asian or Pacific Islander (Chinese, Japanese, Korean, Filipino, Subcontinental Indian). . . . . 4 ☐
- Hispanic (Mexican, Puerto Rican, Cuban, Spanish) . . 5 ☐
- None of the above . . . . . 6 ☐

P. Do you feel that:

a) your employer pays you fairly in comparison with other employees who have similar duties and responsibilities?

Yes 1 ☐ No 2 ☐

b) your chances for professional advancement within your company or organization are as good as those of other employees with equivalent qualifications and experience?

Yes 1 ☐ No 2 ☐

c) your chances for managerial advancement within your company or organization are as good as those of other employees with equivalent qualifications and experience?

Yes 1 ☐ No 2 ☐

Please use the reverse side of this page for any comments or suggestions.

SALARIES 1981

ANALYSIS OF THE AMERICAN CHEMICAL SOCIETY'S 1981 SURVEY OF SALARIES AND EMPLOYMENT

This report was prepared by the
ACS Office of Manpower Studies

American Chemical Society
1155 Sixteenth Street, N.W.
Washington, D.C. 20036

July 1, 1981

Available from Special Issues Sales, ACS Price: $25.00

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INTRODUCTION AND ACKNOWLEDGMENT

This report presents detailed results of the 1981 Comprehensive Salary and Employment Status Survey. Such a survey is conducted in March of every year by the ACS's Office of Manpower Studies. A summary of the 1980 findings was published in the June 22, 1981 issue of Chemical and Engineering News.

General oversight of the survey and its analysis was provided by the ACS Council Committee on Economic Status, which is grateful to each of the more than 11,000 ACS members who completed and returned survey questionnaires. Dr. Gerhard Meisels is 1981 Chairman of the Committee.

This report was prepared by John Robert Jones, Harry Foxwell, and Joanna Chin of the ACS Office of Manpower Studies.

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TECHNICAL NOTES

The target population of the 1981 Comprehensive Salary and Employment Status Survey is those ACS members who have U.S. mailing addresses, are not older than 70, and have neither student nor emeritus status.

On January 31,1980 the ACS membership totalled 115,120, of which approximately 87,600 were eligible for inclusion in the sample. A systematic sample of 21,900 was selected from the target population.

The survey questionnaires were mailed to this sample of 21,900 members by bulk mail during the week of February 16-20. By May 8, the cut-off date, 11,266 (51.4%) usable questionnaires had been returned.

The survey data were processed by the Alpha-Micro computer at the ACS Office of Manpower Studies. Computer programs for the processing were written by Harry Foxwell, Bob Jones, and Joanna Chin.

Definitions

For the purposes of the survey analysis only, the following definitions were used:

Chemist: a respondent who indicated a work specialty of chemistry or biochemistry (categories 2 through 11 of question D on the questionnaire).

Chemical Engineer: a respondent who indicated a work specialty of chemical engineering (category 1 of question D on the questionnaire).

Unemployed: a respondent who is unemployed and seeking employment (category 3 of question B on the questionnaire).

This report presents the respondents' principal annual salaries as of March 1, 1981. The respondent's age is given as of March 1, 1980. A respondent's state and geographic region refer to place of residence, rather than place of employment.

Academic Salaries

This year, for the first time, the survey asked members employed in colleges and universities to indicate whether their base salaries covered service for 9-10 months or 11-12 months. Almost one third of academic chemists responding indicated that their salaries covered service for 11-12 months.

No adjustment was made to the salary data reported for academic chemists, and so comparisons with past survey results may be made. If all academic salaries for 11-12 months of service were prorated to a 9-10 month period,

salary statistics (percentiles, medians, and means) would be somewhat less than those reported in the salary tables for these chemists.

Further study is planned to determine whether the proportion of academic chemists with 11-12 months salary periods is changing and whether any adjustments are required when reporting salaries for this group.

Proportions

The proportion of people falling within a certain cell in one of the tables is a sample proportion. The sample proportion is used to make statements about the corresponding population proportion, but, of course, the sample proportion generally is not exactly equal to the population proportion. Another useful type of estimate is the confidence interval. Such an interval estimate is illustrated in the following statement: "We assert with 95% confidence that the population proportion is between 0.04 and 0.06". A simple but adequate formula for a confidence interval centered on the sample proportion is

$$p = \hat{p} + z\,[\hat{p}(1-\hat{p})/n]1/2$$

where
- p = the population proportion
- $\hat{p}$ = the sample proportion
- z = a function of the level of confidence and is found in a table of the standard normal distribution
- n = the sample size

Inspection of the formula shows that the width of the confidence interval is inversely proportional to the square root of the sample size, so that proportions derived from small samples are not so precise as ones drawn from large samples. Also, if non-respondents differ from respondents with regard to the characteristics under consideration, the formula will overstate precision because the formula is based on an assumption of 100% response.

Suppose a confidence interval is required for a group containing 1900 sample members. If the sample contains 95 persons with a specific characteristics, then the numbers that go into the formula are $\hat{p} = 95/1900 = 0.05$ and $n = 1900$. For a 95% confidence interval, z is about 2. Putting these numbers into the formula above we have

$$\begin{aligned} p &= \hat{p} + z[\hat{p}(1-\hat{p})/n]1/2 \\ &= 0.05 + 2[0.05((0.95)/1900] \\ &= 0.05 + 0.01 \end{aligned}$$

Thus, a 95% confidence interval for p is from 4.0% to 6.0%. Although we cannot say that the population proportion is exactly 5.0%, we can be confident that it is between 4.0% and 6.0%. The 95% level of confidence means roughly that if this procedure were followed a large number of times using different samples of the same size, the population proportion would be within the calculated interval about 95% of the time.

Small Cell Counts

If the number of responses in a cell of a salary table is small, then the sample salary statistics for that cell may not accurately estimate the corresponding population salary statistics. In general, a cell containing fewer than 15 responses does not provide a useful estime of the median salary, and a cell containing fewer than 25 responses does not provide a useful estimate of the 25th or the 75th salary percentile.

Percentiles

If a sample of size n is arranged in ascending order of magnitude, the jth percentile Pj , j = 1,2 ... or 99 is given by the (j(n+1)/100)th value. If (j(n+1)/100) is not an integer, then the jth percentile is a weighted average of the two values whose ranks are closest to (j(n+1)/100).

Discrepancies Among Tables

Some pairs of tables contain totals that should be identical but are not. For example, two tables that present information about PhD respondents should show the same total number of PhDs. They might, however, show different totals. To illustrate, if one table groups the PhDs according to specialty and the other groups them according to geographic region, the totals will differ unless the number who did not indicate their specialty is the same as the number who did not indicate their geographic region.

Comparing Salaries

Often questions arise concerning B.S. chemists' salaries as compared with M.S. chemists', or chemists' salaries as compared with chemical engineers'. These and similar comparisons require caution.

Statistical tests should be performed to determine whether observed differences in salaries of various sample groups could be mere chance occurrences resulting from peculiarities of the sample. Whether a difference in salaries is "statistically significant" depends not only on the magnitude of the difference but also on the sample size and the magnitudes of the sample standard deviations.

References for statistical tests of significance may be found in Numerical and Statistical Techniques, by J.H. Pollard, Handbook of Tables for Probability and Statistics, published by the Chemical Rubber Company, and other similar texts.

Work Specialties

Question D presents a list of work specialties and asks the respondent to choose one specialty. Because of an error the list does not include "inorganic chemistry". As a result, the tables include inorganic chemists in the category: "other specialties". Inorganic chemists comprise about one-half of the chemists that this report includes in the category "other specialties". This estimate is based on results of past ACS surveys.

GEOGRAPHIC REGIONS

PACIFIC

- Alaska
- California
- Hawaii
- Oregon
- Washington

MOUNTAIN

- Arizona
- Colorado
- Idaho
- Montana
- Nevada
- New Mexico
- Utah
- Wyoming

WEST NORTH CENTRAL

- Iowa
- Kansas
- Minnesota
- Missouri
- Nebraska
- North Dakota
- South Dakota

WEST SOUTH CENTRAL

- Arkansas
- Louisiana
- Oklahoma
- Texas

EAST NORTH CENTRAL

- Illinois
- Indiana
- Michigan
- Ohio
- Wisconsin

EAST SOUTH CENTRAL

- Alabama
- Kentucky
- Mississippi
- Tennessee

MIDDLE ATLANTIC

- New Jersey
- New York
- Pennsylvania

SOUTH ATLANTIC

- Delaware
- District of Columbia
- Florida
- Georgia
- Maryland
- North Carolina
- South Carolina
- Virginia
- West Virginia

NEW ENGLAND

- Connecticut
- Maine
- Massachusetts
- New Hampshire
- Rhode Island
- Vermont

TABLE-1.1.0

SALARIES of FULL-TIME EMPLOYED CHEMISTS
by HIGHEST DEGREE and YEARS SINCE BS
1981 Survey of ACS Members

	YEARS SINCE BS										
HIGHEST DEGREE	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Bachelors	24,040	23,920	30,000	38,000	43,210	45,376	49,700	52,400	60,000	60,000	---	45,000 - 90th %-ile
	21,000	21,727	25,183	32,000	35,100	39,000	40,000	44,000	49,000	47,500	30,960	35,100 - 75th %-ile
	17,900	19,028	22,000	27,000	30,000	32,400	34,500	35,500	36,240	38,000	25,000	27,500 - Median
	15,316	16,398	19,000	23,434	24,491	28,000	29,000	29,940	28,500	30,216	22,144	21,458 - 25th %-ile
	12,738	14,550	16,760	20,526	21,000	22,970	24,000	24,000	24,000	25,000	---	17,626 - 10th %-ile
	18,362	19,331	23,063	28,302	31,388	33,932	36,125	39,576	40,854	40,201	26,399	30,242 - Mean
	4,909	4,591	9,856	7,268	10,387	9,991	12,005	20,770	18,677	14,299	6,864	14,489 - Std. Dev.
	45	274	405	260	206	187	162	295	127	99	8	2,068 - Count
Masters	---	25,000	29,000	37,500	44,000	48,525	56,400	52,113	55,000	60,840	55,000	47,200
	---	24,000	25,800	31,475	37,000	38,382	43,500	43,925	42,401	49,000	44,000	38,000
	---	23,000	22,486	27,000	31,683	32,000	35,000	36,000	35,517	37,000	30,000	30,000
	---	19,620	19,100	22,075	25,900	25,000	28,000	30,000	27,900	30,000	24,000	23,500
	---	16,500	16,000	17,550	19,850	19,550	23,000	23,475	20,500	24,236	20,000	19,000
	---	21,844	22,478	29,524	33,029	33,071	39,636	37,928	37,022	40,663	35,034	32,584
	---	2,892	5,076	22,943	16,630	11,899	25,480	12,500	13,250	16,390	17,015	17,728
	0	39	251	280	214	154	175	214	94	87	59	1,567
Doctorate	---	---	34,000	40,000	46,000	52,000	56,000	65,000	64,000	65,000	55,800	53,000
	---	---	31,500	35,000	40,000	44,000	48,000	52,000	52,000	52,000	45,000	44,000
	---	27,920	29,000	30,000	33,000	36,000	38,100	45,000	43,250	43,028	35,000	35,000
	---	---	25,000	23,500	25,000	28,850	30,458	35,000	35,000	35,083	28,000	27,888
	---	---	17,000	18,000	21,000	22,900	24,813	29,010	27,925	28,500	21,000	21,406
	---	27,920	27,824	29,642	33,396	37,369	40,789	46,542	45,535	46,309	38,546	37,146
	---	4,356	10,127	8,897	10,426	12,666	17,262	18,561	16,828	19,279	21,463	15,616
	0	2	340	750	886	704	521	520	294	266	211	4,494
No Response	---	---	---	---	---	---	---	---	---	---	85,000	85,000
	---	---	---	---	---	---	---	---	---	---	54,000	54,000
	---	---	---	---	---	---	---	---	---	---	38,400	38,400
	---	---	---	---	---	---	---	---	---	---	32,031	32,031
	---	---	---	---	---	---	---	---	---	---	20,000	20,000
	---	---	---	---	---	---	---	---	---	---	43,410	43,410
	---	---	---	---	---	---	---	---	---	---	19,532	19,532
	0	0	0	0	0	0	0	0	0	0	19	19
TOTAL	24,040	24,910	32,000	39,000	45,000	50,000	55,000	60,000	62,000	63,700	55,000	50,000
	21,000	22,000	28,923	34,000	39,000	43,000	45,000	50,000	50,000	51,000	44,500	40,500
	17,900	19,600	24,000	28,700	32,000	34,990	37,000	40,000	40,000	41,000	34,000	32,000
	15,316	16,800	19,782	23,175	25,000	27,966	30,000	32,000	32,000	33,000	27,000	24,825
	12,738	14,920	16,770	18,400	21,000	22,460	24,000	26,000	25,000	26,000	20,820	19,500
	18,362	19,696	24,541	29,346	33,019	36,121	39,673	42,754	42,827	43,884	37,832	34,531
	4,909	4,530	9,301	13,070	11,676	12,241	18,515	18,566	17,030	17,958	20,379	16,074
	45	315	996	1,290	1,306	1,045	858	1,029	515	452	297	8,148

TABLE-1.1.1

SALARIES of FULL-TIME EMPLOYED CHEMISTS
by HIGHEST DEGREE and YEARS SINCE BS - Men Only
1981 Survey of ACS Members

	YEARS SINCE BS										
HIGHEST DEGREE	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Bachelors	21,000	22,000	25,620	32,868	36,000	39,000	40,000	45,000	49,432	48,000	32,280	37,000 - 75th %-ile
	18,000	19,300	22,500	27,576	31,250	32,760	35,000	36,500	38,750	39,000	25,000	29,220 - Median
	15,432	17,000	19,203	23,986	25,719	28,875	29,000	30,000	29,250	31,300	23,774	22,500 - 25th %-ile
	18,885	19,924	23,012	28,770	32,399	34,460	36,750	40,504	42,436	40,852	27,085	31,684 - Mean
	5,762	4,846	5,959	7,408	10,108	9,632	12,135	21,168	19,291	14,231	7,112	14,609 - Std. Dev.
	23	179	309	232	174	166	147	275	108	95	7	1,715 - Count
Masters	---	24,250	26,000	32,000	37,900	39,563	44,341	44,000	45,000	49,850	48,375	39,000
	---	22,500	23,000	27,780	32,000	33,000	36,000	36,000	38,000	38,980	32,500	30,543
	---	19,560	19,560	22,900	26,000	26,000	29,000	31,000	28,250	30,000	26,040	24,000
	---	21,920	22,852	30,476	32,835	34,203	41,141	38,586	38,483	41,435	37,237	33,750
	---	2,819	4,912	25,188	10,043	12,016	26,826	12,421	13,487	16,430	17,638	17,948
	0	29	189	227	185	132	153	197	79	82	48	1,321
Doctorate	---	---	31,700	35,000	40,000	44,000	48,000	52,000	53,500	52,650	45,000	44,500
	---	24,840	29,000	30,500	33,000	36,320	39,000	45,000	45,000	43,500	36,000	35,000
	---	---	25,000	24,000	26,000	29,046	31,000	35,045	36,000	36,000	28,900	28,200
	---	24,840	28,044	30,091	33,811	37,732	41,173	46,782	46,420	46,734	40,262	37,785
	---	---	10,544	8,939	10,398	12,415	17,472	18,583	16,748	19,424	22,183	15,766
	0	1	295	675	811	660	497	501	278	256	184	4,158
No Response	---	---	---	---	---	---	---	---	---	---	54,250	54,250
	---	---	---	---	---	---	---	---	---	---	37,450	37,450
	---	---	---	---	---	---	---	---	---	---	31,773	31,773
	---	---	---	---	---	---	---	---	---	---	42,988	42,988
	---	---	---	---	---	---	---	---	---	---	20,009	20,009
	0	0	0	0	0	0	0	0	0	0	18	18
TOTAL	21,000	22,013	29,110	34,050	39,185	43,050	45,900	50,000	50,256	51,000	45,000	42,000
	18,000	20,000	24,300	29,200	32,824	35,000	37,800	40,000	41,500	41,137	35,280	33,000
	15,432	17,400	20,000	23,997	26,000	28,800	30,000	32,000	33,468	34,000	28,000	25,600
	18,885	20,225	24,846	29,898	33,447	36,679	40,351	43,348	44,146	44,440	39,529	35,608
	5,762	4,663	8,178	13,624	10,307	12,015	18,910	18,655	17,120	18,029	21,050	16,158
	23	209	793	1,134	1,170	958	797	973	465	433	257	7,212

TABLE-1.1.2

SALARIES of FULL-TIME EMPLOYED CHEMISTS
by HIGHEST DEGREE and YEARS SINCE BS - Women Only
1981 Survey of ACS Members

	YEARS SINCE BS										
HIGHEST DEGREE	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Bachelors	20,965	21,000	24,000	27,000	28,650	30,694	32,805	31,000	36,375	25,908	---	25,100 - 75th %-ile
	17,500	18,500	21,000	23,986	24,400	24,000	30,700	27,750	25,910	25,065	21,600	21,250 - Median
	14,800	15,270	18,600	23,000	21,000	20,887	23,100	23,600	22,775	23,285	---	18,000 - 25th %-ile
	17,902	18,181	23,264	24,043	25,893	25,679	29,176	26,760	29,339	24,753	21,600	22,671 - Mean
	3,958	3,876	17,348	4,048	10,311	6,322	7,440	5,402	8,560	1,402	---	11,077 - Std. Dev.
	21	92	95	27	32	17	12	18	16	4	1	335 - Count
Masters	---	24,125	25,150	30,000	33,175	30,586	33,670	38,000	36,398	36,650	29,250	30,000
	---	23,000	21,900	25,500	29,425	25,250	29,000	27,800	28,520	29,000	22,619	25,000
	---	18,975	17,893	19,169	21,250	20,625	25,000	20,000	20,750	18,893	18,900	20,000
	---	21,625	21,337	25,456	34,202	26,200	29,031	28,679	28,923	28,017	24,464	26,053
	---	3,245	5,428	6,889	38,631	8,604	6,373	10,755	8,976	9,837	9,541	15,236
	0	10	62	51	28	20	21	15	14	5	10	236
Doctorate	---	---	30,868	30,000	34,500	35,000	37,780	40,773	39,487	46,500	31,300	33,000
	---	31,000	29,000	26,820	27,029	29,645	28,750	35,758	28,250	30,000	27,800	28,500
	---	---	22,800	18,800	22,500	21,400	23,662	29,663	21,750	25,300	19,750	21,500
	---	31,000	26,632	25,512	28,083	29,584	30,607	39,032	30,112	34,654	25,757	28,289
	---	---	6,563	7,566	8,253	9,847	8,049	18,520	9,886	11,219	8,728	9,552
	0	1	44	70	67	35	18	16	14	9	25	299
No Response	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	51,000	51,000
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	51,000	51,000
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	0	0	0	1	1
TOTAL	20,965	21,500	26,982	29,515	32,500	32,207	35,000	37,750	37,125	39,000	31,300	30,000
	17,500	18,720	22,000	25,238	26,398	26,250	30,000	30,000	26,770	28,500	26,500	24,000
	14,800	15,950	18,528	19,314	21,760	21,000	24,515	24,125	22,125	23,979	20,050	19,056
	17,902	18,640	23,407	25,225	28,880	27,722	29,621	31,355	29,453	30,610	25,978	25,549
	3,958	4,110	12,780	6,799	19,762	8,867	7,141	13,456	8,928	10,052	9,599	12,151
	21	103	201	148	127	72	51	49	44	18	37	871

TABLE-1.2.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY
by SEX and YEARS SINCE BS
1981 Survey of ACS Members

	YEARS SINCE BS											
SEX	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Men	23,700	22,000	26,400	33,394	37,100	40,000	42,000	45,000	50,000	47,500	34,095	38,100 - 75th %-ile
	18,500	20,000	23,000	28,000	32,000	33,000	35,660	36,504	40,000	40,000	26,000	30,000 - Median
	17,450	17,700	20,000	24,000	26,260	29,500	30,000	30,000	30,000	32,000	24,694	23,000 - 25th %-ile
	20,508	20,442	23,447	29,482	33,263	35,688	37,713	41,371	43,880	41,729	28,766	32,547 - Mean
	5,347	4,843	5,901	7,456	10,542	9,849	12,591	22,396	20,472	14,219	6,080	15,293 - Std. Dev.
	18	157	247	186	141	127	126	235	89	79	6	1,411 - Count
Women	21,240	21,500	24,800	28,225	33,500	27,500	36,045	31,000	37,875	26,000	---	25,000
	17,900	19,812	21,000	24,500	25,000	22,080	29,035	29,000	28,750	24,500	21,600	21,450
	15,500	16,800	19,000	20,200	23,000	20,387	23,100	21,750	22,335	22,880	---	18,350
	18,229	19,040	22,103	24,093	29,443	23,127	29,714	26,500	30,334	24,460	21,600	22,434
	4,026	3,291	4,681	4,935	11,442	4,639	8,118	6,221	9,844	1,560	---	6,614
	19	69	75	18	19	13	8	6	10	3	1	241
No Response	---	---	---	---	---	70,000	---	---	65,000	---	---	39,250
	16,000	17,250	---	34,500	---	42,500	22,000	27,250	36,000	---	---	34,500
	---	---	---	---	---	35,832	---	---	35,000	---	---	20,000
	16,000	17,250	---	34,500	---	49,444	22,000	27,250	45,333	---	---	34,295
	---	1,061	---	---	---	18,112	---	7,425	17,039	---	---	17,110
	1	2	0	1	0	3	1	2	3	0	0	13
TOTAL	21,293	22,000	25,850	33,000	36,875	39,600	41,700	45,000	49,625	47,425	32,280	36,000
	18,000	19,855	22,500	28,000	31,380	32,232	35,000	36,300	38,500	38,250	25,000	28,000
	16,000	17,242	19,775	23,630	25,500	28,700	29,000	30,000	29,000	31,825	23,774	22,000
	19,250	19,990	23,134	29,033	32,810	34,835	37,122	40,888	42,594	41,097	27,742	31,097
	4,755	4,456	5,662	7,412	10,687	10,499	12,515	22,202	19,902	14,331	6,176	14,810
	38	228	322	205	160	143	135	243	102	82	7	1,665

TABLE-1.2.2

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY
by SEX and YEARS SINCE BS
1981 Survey of ACS Members

	YEARS SINCE BS											
SEX	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Men	---	24,675	26,540	33,325	39,140	43,425	46,650	46,470	49,775	53,000	49,750	41,000 - 75% -ile
	---	23,000	23,500	28,800	33,900	35,550	40,000	38,125	39,750	41,000	35,000	32,500 - Median
	---	20,000	21,000	25,000	27,000	31,665	31,343	33,350	31,875	32,000	28,550	26,000 - 25% -ile
	---	22,491	24,010	33,423	34,392	38,043	44,160	41,192	41,684	45,136	37,625	35,852 - Mean
	---	2,331	4,246	29,030	10,199	11,315	25,186	12,519	14,037	16,920	12,245	18,676 - Std. Dev.
	0	25	145	162	138	80	105	136	52	55	33	931 - Count
Women	---	24,250	27,000	33,000	34,875	32,000	37,035	39,250	39,795	---	44,000	32,000
	---	23,000	23,000	29,205	29,750	27,800	30,400	37,750	32,000	---	36,000	27,240
	---	18,750	21,350	25,000	27,250	25,000	29,250	27,050	22,148	---	20,100	23,000
	---	21,828	23,688	29,113	41,694	30,518	32,760	34,500	31,177	---	33,367	29,656
	---	3,374	4,103	5,630	50,085	8,523	4,887	7,271	9,485	---	12,166	18,792
	0	9	37	28	16	11	12	10	5	0	3	131
No Response	---	---	---	---	---	---	---	---	---	---	---	39,000
	---	---	---	22,500	---	36,000	32,000	40,000	---	---	---	34,000
	---	---	---	---	---	---	---	---	---	---	---	24,875
	---	---	---	22,500	---	36,000	32,000	40,000	---	---	---	32,625
	---	---	---	---	---	---	---	---	---	---	---	7,499
	0	0	0	1	0	1	1	1	0	0	0	4
TOTAL	---	24,500	26,643	33,200	38,625	42,375	45,925	45,000	49,050	53,000	48,375	40,000
	---	23,000	23,500	29,000	33,108	35,000	38,750	38,000	39,000	41,000	35,500	31,770
	---	20,000	21,000	25,000	27,000	30,285	30,000	33,000	31,250	32,000	28,325	25,500
	---	22,315	23,944	32,734	35,150	37,121	42,897	40,729	40,762	45,136	37,270	35,079
	---	2,608	4,208	26,861	18,549	11,188	24,064	12,290	13,959	16,920	12,124	18,762
	0	34	182	191	154	92	118	147	57	55	36	1,066

TABLE-1.2.3

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY
by SEX and YEARS SINCE BS
1981 Survey of ACS Members

SEX	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Men	---	---	32,046	37,200	43,000	49,000	53,400	59,650	60,000	60,000	51,250	48,000 - 75th %-ile
	---	24,840	30,031	34,000	38,050	42,780	45,000	48,000	48,000	49,750	39,000	39,686 - Median
	---	---	28,300	30,100	33,000	37,000	38,000	40,000	40,000	40,000	32,375	33,000 - 25th %-ile
	---	24,840	31,097	34,611	39,068	44,277	48,151	52,261	52,334	53,366	43,746	42,824 - Mean
	---	---	10,693	7,287	9,240	11,921	17,291	20,441	18,571	23,278	18,962	16,255 - Std. Dev.
	0	1	208	395	424	323	234	284	149	132	98	2,248 - Count
Women	---	---	31,850	35,000	41,375	38,650	44,500	70,000	50,000	---	34,000	37,238
	---	31,000	30,000	29,700	35,950	33,258	38,720	38,052	30,000	---	28,500	31,000
	---	---	28,725	27,600	30,013	31,350	27,375	37,658	16,500	---	27,100	29,000
	---	31,000	30,219	31,165	35,923	35,742	36,990	50,674	32,167	---	30,080	33,299
	---	---	2,849	5,545	6,288	7,704	8,117	27,592	16,855	---	8,168	8,935
	0	1	30	51	24	10	6	5	3	0	10	120
No Response	---	---	---	---	57,938	77,000	52,000	---	---	---	---	51,250
	---	---	---	---	49,000	45,960	46,100	44,980	---	---	---	46,750
	---	---	---	---	46,625	37,385	45,000	---	---	---	---	44,568
	---	---	---	---	51,188	54,946	47,700	44,980	---	---	---	50,896
	---	---	---	---	6,368	28,756	3,764	7,099	---	---	---	16,850
	0	0	0	0	4	5	3	2	0	0	0	14
TOTAL	---	---	32,000	37,125	43,000	48,877	53,000	59,500	60,000	60,000	49,125	48,000
	---	27,920	30,000	33,500	38,000	42,450	45,000	48,000	48,000	49,750	37,620	39,000
	---	---	28,500	30,000	33,000	36,875	38,000	40,000	40,000	40,000	30,195	32,188
	---	27,920	30,986	34,361	39,008	44,183	47,870	52,184	51,936	53,366	42,480	42,392
	---	4,356	10,047	7,225	9,176	12,289	17,099	20,465	18,701	23,278	18,639	16,114
	0	2	238	426	452	338	243	291	152	132	108	2,382

TABLE-1.3.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME In GOVERNMENT
by SEX and YEARS SINCE BS
1981 Survey of ACS Members

	YEARS SINCE BS											
SEX	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Men	---	18,050	26,250	28,685	33,000	36,320	38,456	46,708	49,615	50,106	---	35,250 - 75th %-ile
	12,000	15,900	22,236	24,998	30,000	33,238	30,000	38,000	36,600	39,000	---	29,000 - Median
	---	15,300	18,200	23,986	25,792	24,700	29,000	29,236	32,000	26,608	---	22,500 - 25th %-ile
	12,000	16,938	22,581	25,441	30,237	31,770	32,240	37,336	39,903	37,592	---	29,861 - Mean
	---	2,696	5,392	5,366	5,344	7,485	6,517	10,319	9,388	14,985	---	9,781 - Std. Dev.
	1	8	29	28	19	27	15	27	9	9	0	172 - Count
Women	---	18,543	22,673	25,680	30,000	37,000	---	33,200	36,696	---	---	30,000
	15,200	15,193	19,491	23,986	21,624	34,198	32,200	31,000	28,825	25,630	---	23,100
	---	13,433	18,364	23,000	15,500	30,500	---	26,870	25,747	---	---	18,500
	15,200	15,992	33,262	24,143	22,375	33,899	32,200	30,228	30,423	25,630	---	26,786
	---	3,641	47,845	1,322	7,279	3,260	1,131	3,296	5,957	---	---	24,536
	1	9	12	7	3	3	2	5	4	1	0	47
No Response	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	40,000	---	---	---	---	---	40,000
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	40,000	---	---	---	---	---	40,000
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	---	18,543	25,250	27,672	32,504	37,000	37,922	46,650	47,865	50,103	---	35,000
	13,600	15,600	21,000	24,800	29,800	33,300	31,400	35,000	35,000	37,000	---	28,000
	---	15,050	18,350	23,100	25,169	28,900	29,000	29,059	27,900	24,973	---	22,000
	13,600	16,437	25,707	25,181	29,165	32,242	32,235	36,225	36,986	36,396	---	29,250
	2,263	3,169	25,963	4,843	6,095	7,194	6,103	9,879	9,401	14,626	---	14,257
	2	17	41	35	22	31	17	32	13	10	0	220

TABLE-1.3.2

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME In GOVERNMENT
by SEX and YEARS SINCE BS
1981 Survey of ACS Members

	YEARS SINCE BS											
SEX	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Men	---	---	23,625	30,375	36,475	37,825	39,500	41,000	43,350	43,500	50,250	36,975 - 75th %-ile
	---	---	22,243	25,000	32,119	31,250	34,090	35,000	40,000	40,000	27,750	30,500 - Median
	---	---	18,423	21,000	27,661	24,625	23,050	30,650	32,817	35,000	22,250	23,000 - 25th %-ile
	---	---	21,516	25,381	31,427	32,260	33,857	36,160	38,467	39,204	33,250	30,896 - Mean
	---	---	3,538	5,922	7,425	9,557	11,661	8,741	6,045	5,939	13,732	9,655 - Std. Dev.
	0	0	18	28	16	16	17	22	5	9	6	137 - Count
Women	---	---	24,719	30,000	34,500	---	---	---	41,000	---	---	30,000
	---	19,800	19,000	27,000	29,823	27,640	26,000	18,000	36,000	39,000	24,000	25,000
	---	---	17,785	20,500	21,661	---	---	---	30,000	---	---	19,000
	---	19,800	21,321	25,614	28,661	27,640	26,000	18,000	35,667	39,000	24,000	25,836
	---	---	5,731	5,595	7,070	4,106	1,414	---	5,508	---	---	6,992
	0	1	9	7	4	2	2	1	3	1	1	31
No Response	---	---	---	---	---	---	---	---	---	---	---	42,508
	---	---	---	---	---	18,200	---	45,000	35,033	---	35,000	35,017
	---	---	---	---	---	---	---	---	---	---	---	22,400
	---	---	---	---	---	18,200	---	45,000	35,033	---	35,000	33,308
	---	---	---	---	---	---	---	---	---	---	---	11,117
	0	0	0	0	0	1	0	1	1	0	1	4
TOTAL	---	---	23,500	30,000	36,300	37,300	39,000	43,000	40,500	42,750	46,250	35,813
	---	19,800	20,000	25,000	31,000	30,000	34,000	35,000	36,000	39,500	27,750	30,000
	---	---	18,000	21,000	27,661	23,500	24,000	29,950	32,817	35,000	23,250	22,625
	---	19,800	21,451	25,427	30,874	31,034	33,030	35,772	37,152	39,183	32,313	30,040
	---	---	4,278	5,778	7,260	9,424	11,275	9,346	5,322	5,600	12,098	9,430
	0	1	27	35	20	19	19	24	9	10	8	172

TABLE-1.3.3

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME In GOVERNMENT
by SEX and YEARS SINCE BS
1981 Survey of ACS Members

	YEARS SINCE BS											
SEX	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Men	---	---	28,740	35,000	37,968	41,829	47,000	50,000	50,000	50,084	44,000	45,000 - 75th %-ile
	---	---	25,250	31,810	34,092	36,000	40,000	47,983	46,000	43,250	37,000	37,000 - Median
	---	---	21,375	26,988	28,968	30,000	35,813	40,000	40,000	35,050	30,000	30,823 - 25th %-ile
	---	---	24,817	31,396	33,833	35,892	40,429	44,762	44,185	42,934	37,686	37,638 - Mean
	---	---	4,908	6,198	7,198	7,635	7,263	7,480	7,485	9,412	9,203	9,133 - Std. Dev.
	0	0	16	42	76	53	50	52	29	28	19	365 - Count
Women	---	---	---	29,175	32,048	44,028	---	41,031	---	50,000	33,508	38,000
	---	---	30,000	28,747	29,000	38,936	33,694	34,200	31,000	43,000	28,900	30,000
	---	---	---	27,000	22,550	31,447	---	26,951	---	39,000	22,125	27,400
	---	---	30,000	28,219	28,743	38,613	33,694	34,061	31,000	44,000	28,056	32,454
	---	---	---	1,150	5,620	7,344	5,224	7,041	12,021	5,568	5,928	7,522
	0	0	1	5	7	6	2	3	2	3	6	35
No Response	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	34,143	---	---	---	---	---	42,240	---	38,192
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	34,143	---	---	---	---	---	42,240	---	38,192
	---	---	---	---	---	---	---	---	---	---	---	5,725
	0	0	0	1	0	0	0	0	0	1	0	2
TOTAL	---	---	29,660	34,786	37,871	42,000	46,500	50,000	50,000	50,000	40,064	44,181
	---	---	26,000	30,823	33,888	36,280	40,000	47,000	45,443	42,620	35,000	36,320
	---	---	21,750	27,000	28,085	30,000	35,439	40,000	39,500	35,575	29,450	30,000
	---	---	25,122	31,122	33,404	36,169	40,170	44,178	43,335	43,012	35,374	37,189
	---	---	4,916	5,897	7,192	7,589	7,275	7,790	8,243	8,904	9,405	9,096
	0	0	17	48	83	59	52	55	31	32	25	402

TABLE-1.4.1

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME In COLLEGE/UNIVERSITY
by SEX and YEARS SINCE BS
1981 Survey of ACS Members

	YEARS SINCE BS											
SEX	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Men	---	---	18,000	23,250	30,750	26,000	31,415	32,246	33,563	30,125	31,500	29,050 - 75th %-ile
	---	15,750	16,000	20,000	22,285	23,000	23,000	25,167	27,290	27,270	27,650	22,000 - Median
	---	---	15,400	15,000	18,138	20,000	18,550	21,085	19,729	20,625	22,000	18,000 - 25th %-ile
	---	15,750	15,575	20,003	23,781	23,781	24,926	26,167	27,199	25,452	26,930	23,349 - Mean
	---	1,061	3,705	4,946	6,379	6,217	7,207	7,425	7,460	6,451	6,029	6,951 - Std. Dev.
	0	2	11	18	16	19	13	17	10	10	5	121 - Count
Women	---	---	13,700	25,000	---	19,983	25,000	---	---	29,000	---	23,238
	---	---	12,650	18,510	23,250	16,715	23,000	11,470	23,000	24,345	19,269	16,434
	---	---	11,750	15,000	---	14,925	20,000	---	---	13,440	---	13,500
	---	---	12,683	19,077	23,250	17,208	22,667	11,470	23,000	22,262	19,269	18,298
	---	---	1,151	4,651	10,960	2,741	2,517	1,810	2,828	7,986	5,613	5,636
	0	0	6	7	2	4	3	2	2	3	2	31
No Response	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	---	---	17,050	23,500	31,000	25,000	28,959	32,000	32,349	29,550	30,000	27,000
	---	15,750	15,400	19,200	22,285	22,000	23,000	24,000	25,000	27,000	27,000	21,400
	---	---	12,650	15,000	17,950	19,350	19,250	19,960	20,250	19,750	17,000	17,063
	---	15,750	14,554	19,744	23,722	22,638	24,503	24,620	26,499	24,715	24,741	22,319
	---	1,061	3,320	4,787	6,557	6,256	6,575	8,406	6,995	6,618	6,592	6,992
	0	2	17	25	18	23	16	19	12	13	7	152

TABLE-1.4.2

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY
by SEX and YEARS SINCE BS
1981 Survey of ACS Members

	YEARS SINCE BS										
SEX	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Men	---	---	21,625	24,000	28,062	33,953	37,749	42,750	45,000	45,000	40,000	34,470 - 75th %-ile
	---	---	18,170	20,000	24,000	28,200	30,000	32,825	36,000	36,555	32,000	27,000 - Median
	---	---	16,500	17,500	21,000	24,584	25,000	28,000	30,400	30,375	22,950	22,000 - 25th %-ile
	---	---	19,121	20,997	25,566	29,547	33,067	35,767	37,533	38,253	35,161	29,408 - Mean
	---	---	4,025	4,888	7,359	7,758	16,542	11,858	11,052	10,537	29,684	12,928 - Std. Dev.
	0	0	64	197	251	254	188	136	83	78	57	1,308 - Count
Women	---	---	18,500	20,000	26,199	24,000	30,250	39,325	39,482	40,000	27,000	26,000
	---	---	16,600	18,000	22,600	21,500	24,258	31,500	26,500	28,500	20,500	21,400
	---	---	15,200	16,100	18,000	19,217	21,875	26,138	21,000	21,442	14,600	17,500
	---	---	17,231	18,678	22,722	23,309	26,159	33,620	29,724	30,277	20,500	22,897
	---	---	3,095	3,603	5,021	7,321	5,610	12,036	8,835	11,718	7,452	7,621
	0	0	11	29	33	16	10	8	7	5	8	127
No Response	---	---	---	27,000	24,500	30,000	36,000	---	---	---	---	31,000
	---	---	15,600	24,500	19,500	23,859	31,400	50,000	30,500	---	40,500	26,700
	---	---	---	20,000	17,500	15,500	26,700	---	---	---	---	20,000
	---	---	15,600	23,833	20,500	23,120	31,367	50,000	30,500	---	40,500	27,608
	---	---	---	3,547	3,873	7,278	4,650	---	707	---	14,849	9,952
	0	0	1	3	4	3	3	1	2	0	2	19
TOTAL	---	---	20,488	24,000	28,000	33,073	37,250	42,500	43,000	45,000	39,000	33,972
	---	---	18,000	20,000	23,750	28,000	30,000	33,000	35,500	36,500	29,000	26,200
	---	---	16,000	17,375	20,805	23,825	25,000	28,000	30,000	29,544	21,000	21,000
	---	---	18,801	20,740	25,169	29,111	32,698	35,746	36,786	37,772	33,570	28,816
	---	---	3,933	4,792	7,160	7,867	16,118	11,855	10,974	10,705	27,950	12,649
	0	0	76	229	288	273	201	145	92	83	67	1,454

TABLE-1.5.1

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS
by REGION and YEARS SINCE BS
1981 Survey of ACS Members

REGION	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Pacific	23,000	22,500	26,250	27,618	34,250	43,000	39,195	49,000	48,500	46,500	32,280	36,000 - 75th %-ile
	18,000	20,400	23,374	25,740	30,000	34,680	35,000	36,000	38,000	43,250	25,000	28,530 - Median
	16,400	15,100	20,419	22,500	24,875	29,750	29,177	31,000	27,400	31,750	17,000	23,387 - 25th %-ile
	19,360	20,146	26,394	25,573	30,255	37,025	34,374	40,278	40,209	40,765	24,760	31,571 - Mean
	3,485	6,102	22,098	5,464	7,079	10,429	6,371	12,807	14,982	9,777	7,643	15,093 - Std. Dev.
	5	17	56	30	26	21	18	35	21	14	3	246 - Count
Mountain	20,738	25,000	25,535	32,000	38,685	45,000	39,750	50,112	---	---	---	32,055
	15,800	19,300	23,500	26,640	31,496	34,125	32,610	43,000	51,000	23,000	25,000	24,900
	12,625	15,300	19,993	20,500	25,032	25,250	32,055	27,000	---	---	---	19,825
	16,388	22,414	22,961	25,071	31,071	35,542	34,805	40,037	51,000	23,000	25,000	26,563
	4,363	9,649	4,081	7,684	8,395	14,320	4,816	11,837	---	---	---	10,066
	4	11	18	9	4	6	4	3	1	1	1	62
WN Central	---	21,625	23,150	32,000	46,875	31,300	37,000	39,060	97,500	56,000	---	32,000
	20,450	19,930	20,800	27,654	33,100	26,250	31,250	31,250	38,000	37,650	---	24,250
	---	16,425	16,500	20,634	22,725	17,563	24,950	28,000	28,500	26,200	---	20,000
	20,450	18,919	20,265	26,999	36,200	26,231	31,030	33,920	58,000	39,950	---	28,045
	11,950	3,687	4,099	5,279	14,910	9,160	6,447	8,634	51,899	15,620	---	15,792
	2	10	29	17	10	8	5	12	5	4	0	102
WS Central	19,300	23,010	28,050	34,200	46,000	42,450	46,500	46,708	48,000	53,225	---	36,080
	16,500	19,200	23,750	26,236	30,000	33,160	36,000	33,000	32,000	43,700	---	27,700
	13,446	16,950	19,150	22,000	22,305	27,000	34,000	29,000	28,440	38,035	---	22,000
	16,399	20,547	24,508	29,309	32,366	34,899	38,673	36,544	36,575	44,987	---	29,900
	3,188	4,238	7,015	11,090	11,122	9,459	7,193	9,789	10,496	8,004	---	10,915
	5	26	26	19	11	14	15	15	11	4	0	146
EN Central	21,240	21,792	25,071	33,612	35,000	39,000	40,000	41,500	53,000	50,850	---	34,000
	18,400	19,650	22,000	29,400	30,500	32,580	33,000	34,235	36,000	38,500	21,600	27,000
	15,800	16,950	18,575	25,000	26,500	29,075	28,000	26,874	24,000	29,000	---	21,600
	19,063	19,507	22,474	29,788	31,781	33,503	34,770	36,260	41,519	41,094	21,600	29,291
	3,091	3,482	5,296	6,687	9,043	7,484	10,148	14,802	22,067	14,014	---	11,801
	7	74	102	71	49	50	37	64	23	17	1	495
ES Central	---	20,435	24,300	32,000	33,600	32,489	---	52,500	44,400	---	---	33,050
	18,000	18,000	18,600	27,300	29,000	29,820	28,190	34,800	35,000	27,908	27,000	27,360
	---	15,375	15,800	25,000	19,000	28,950	---	31,550	28,350	---	---	19,850
	18,000	18,586	20,290	28,527	26,881	30,420	28,190	53,900	36,100	27,908	27,000	30,604
	---	4,330	5,055	5,711	7,256	1,970	6,944	53,185	10,465	3,264	---	25,994
	1	10	13	11	7	4	2	13	5	2	1	69
Mid Atlantic	20,768	20,225	25,000	34,725	35,588	39,750	44,000	45,000	48,680	45,000	---	38,000
	17,750	18,610	22,000	28,000	30,100	30,444	35,820	37,600	37,000	38,000	23,774	28,394
	15,175	16,245	19,400	23,146	23,362	24,915	29,000	30,000	28,567	32,000	---	21,000
	17,745	18,726	22,285	29,259	30,736	34,452	39,330	38,986	39,828	39,773	23,774	30,917
	3,701	4,016	4,935	7,866	8,459	13,331	15,709	14,681	15,613	13,766	---	13,667
	14	68	87	48	50	44	47	83	37	35	1	514
So Atlantic	---	20,945	26,858	29,475	37,252	39,893	38,800	49,125	50,000	51,903	---	38,000
	15,432	17,050	21,700	25,243	29,000	34,599	31,400	37,750	40,000	37,500	39,540	29,120
	---	14,895	18,717	23,000	25,243	29,875	25,200	31,000	31,414	29,250	---	22,000
	15,432	17,749	23,249	27,510	31,287	34,834	32,777	43,968	43,251	40,976	39,540	31,881
	---	4,602	5,795	6,751	12,089	7,318	9,761	30,344	12,943	16,651	---	17,460
	1	26	48	34	29	30	19	48	11	16	1	263
New England	32,500	22,250	25,400	33,850	36,630	40,550	35,500	43,000	51,250	64,500	---	32,074
	16,000	19,581	20,658	24,500	30,000	29,800	30,250	30,000	34,750	32,148	---	24,000
	13,375	15,830	18,054	22,875	20,000	23,924	28,350	22,000	23,160	24,750	---	19,906
	21,350	19,199	23,496	28,291	32,688	31,861	35,458	32,445	39,544	42,130	---	28,316
	10,231	4,991	10,541	8,418	19,262	9,227	17,019	11,082	20,465	28,863	---	14,584
	5	30	23	16	14	6	13	15	10	5	0	137
No Response	---	---	29,100	31,800	36,075	34,574	---	60,000	46,500	---	---	40,250
	18,000	22,000	24,000	22,000	32,500	27,400	42,000	40,000	45,000	33,720	---	31,400
	---	---	20,000	21,500	24,375	18,439	---	38,000	29,000	---	---	22,875
	18,000	22,000	24,367	25,720	31,633	26,804	42,000	47,929	40,167	33,720	---	33,366
	---	1,414	4,561	5,709	7,496	8,362	0	19,469	9,700	---	---	13,618
	1	2	3	5	6	4	2	7	3	1	0	34
TOTAL	21,000	21,727	25,183	32,000	35,100	39,000	40,000	44,000	49,000	47,500	30,960	35,100
	17,900	19,028	22,000	27,000	30,000	32,400	34,500	35,500	36,240	38,000	25,000	27,500
	15,316	16,398	19,000	23,434	24,491	28,000	29,000	29,940	28,500	30,216	22,144	21,458
	18,362	19,331	23,063	28,302	31,386	33,932	36,125	39,576	40,854	40,201	26,399	30,242
	4,909	4,591	9,856	7,268	10,387	9,991	12,005	20,770	18,677	14,299	6,864	14,489
	45	274	405	260	206	187	162	295	127	99	8	2,068

TABLE-1.5.2

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS
by REGION and YEARS SINCE BS
1981 Survey of ACS Members

REGION	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Pacific	---	---	25,950	30,225	35,750	38,688	41,888	48,000	43,325	43,750	41,250	35,125	- 75th %-ile
	---	21,700	22,750	25,465	32,800	32,000	33,320	36,000	31,548	30,870	23,500	29,440	- Median
	---	---	19,500	22,250	24,500	26,850	29,220	31,000	24,000	27,155	20,000	23,075	- 25th %-ile
	---	21,700	22,771	26,381	31,710	34,433	35,204	38,850	32,600	36,713	31,998	30,931	- Mean
	---	---	4,606	5,687	10,078	12,358	10,341	12,487	9,623	16,611	14,847	10,968	- Std. Dev.
	0	1	24	36	22	17	12	23	10	6	7	158	- Count
Mountain	---	---	24,000	33,600	35,200	32,600	48,500	38,000	40,730	44,100	---	33,000	
	---	20,675	22,000	29,280	28,310	25,000	33,000	37,000	30,500	26,300	27,250	27,000	
	---	---	18,000	26,875	22,750	18,000	18,000	27,875	22,449	22,525	---	22,000	
	---	20,675	21,060	30,395	27,542	25,200	33,167	34,292	30,953	30,975	27,250	28,324	
	---	5,904	3,073	7,447	7,833	7,302	15,251	6,156	9,459	12,765	3,182	8,514	
	0	2	7	10	10	3	3	4	6	4	2	51	
WN Central	---	---	27,125	29,250	38,500	32,000	62,250	51,750	34,000	42,355	35,000	35,000	
	---	20,500	20,441	24,800	31,000	24,388	39,000	38,000	20,000	30,000	19,200	25,850	
	---	---	12,600	21,200	21,935	21,450	27,000	23,548	19,200	23,500	17,000	20,559	
	---	20,500	20,488	26,120	30,562	27,754	42,750	38,532	24,400	32,886	23,753	28,592	
	---	3,536	7,183	7,601	8,715	9,094	19,033	20,380	8,323	12,823	9,819	12,074	
	0	2	10	13	9	9	4	6	3	7	3	66	
WS Central	---	25,000	26,832	34,075	41,000	35,000	46,300	39,770	47,307	60,975	49,250	39,000	
	---	24,000	23,000	30,800	38,000	33,000	34,000	33,790	40,114	47,000	25,000	31,300	
	---	21,000	18,700	25,000	28,752	27,800	28,800	25,875	30,500	39,945	14,250	24,500	
	---	23,143	21,761	37,661	36,566	32,431	36,295	33,975	39,307	49,778	29,500	34,105	
	---	2,135	6,202	41,941	12,498	7,989	9,533	9,640	8,795	11,413	13,502	21,807	
	0	7	19	26	19	11	15	12	4	10	4	127	
EN Central	---	24,500	25,950	31,275	37,200	37,650	44,000	43,675	52,000	46,118	52,500	36,200	
	---	23,300	22,450	27,000	31,533	33,000	33,600	36,000	33,575	39,090	33,000	29,800	
	---	20,500	19,813	21,000	26,800	26,250	28,000	32,000	28,110	30,850	29,000	23,600	
	---	22,702	22,882	29,558	33,664	32,530	36,384	39,395	40,019	37,624	44,665	32,313	
	---	2,071	4,733	24,948	10,699	8,986	12,804	14,732	15,759	11,308	28,512	16,394	
	0	9	68	70	46	41	39	48	21	10	11	363	
ES Central	---	---	23,015	28,825	33,700	40,033	78,130	54,584	30,000	105,000	---	36,803	
	---	15,000	19,782	26,000	32,050	25,300	36,650	48,400	20,000	30,000	40,500	26,300	
	---	---	17,000	15,425	22,675	18,323	25,288	23,500	18,498	20,000	---	19,416	
	---	15,000	20,108	23,667	29,475	28,540	48,697	43,152	22,833	51,667	40,500	32,707	
	---	---	3,109	6,757	6,598	11,286	40,206	16,823	6,252	46,458	6,364	21,350	
	0	1	6	6	4	6	5	6	3	3	2	42	
Mid Atlantic	---	23,500	27,000	32,300	39,760	45,000	44,650	44,000	47,050	49,000	43,000	40,000	
	---	22,000	23,500	27,890	32,100	31,000	38,400	38,250	39,000	39,500	30,000	30,700	
	---	19,200	21,250	22,800	27,000	22,000	29,500	30,000	33,000	32,750	26,870	24,700	
	---	21,268	23,536	30,806	37,674	35,523	43,515	38,674	40,864	42,480	33,543	35,069	
	---	3,015	4,892	27,282	30,682	16,347	34,493	10,883	11,63	16,022	9,806	22,601	
	0	11	58	70	45	33	53	61	[illegible]	26	12	394	
So Atlantic	---	24,375	25,400	31,325	36,125	40,500	42,705	45,000	41,000	51,000	52,000	40,000	
	---	22,000	20,500	28,500	29,823	30,810	34,170	38,000	35,033	40,000	43,750	30,250	
	---	19,550	18,000	19,914	23,750	24,750	25,300	31,500	23,458	30,000	31,250	23,800	
	---	21,975	21,364	26,291	29,932	32,518	42,257	37,062	32,937	43,779	40,680	32,516	
	---	2,646	5,306	8,090	9,045	9,665	34,389	10,789	10,561	16,090	13,547	16,428	
	0	4	30	26	38	22	26	33	13	13	10	215	
New England	---	---	24,550	32,625	34,934	42,000	39,000	37,500	51,250	38,750	26,000	35,000	
	---	22,350	21,000	28,100	29,000	37,000	28,500	32,000	35,125	31,910	23,000	28,000	
	---	---	18,050	19,127	26,649	27,492	25,300	23,250	25,510	19,969	21,300	21,650	
	---	22,350	22,123	28,143	29,555	36,531	31,807	32,529	38,161	30,783	23,520	29,313	
	---	4,596	5,706	8,434	6,457	15,753	9,921	13,322	13,985	12,275	2,480	10,755	
	0	2	25	22	20	11	12	17	8	6	5	128	
No response	---	---	24,750	---	---	---	50,250	49,000	---	---	50,000	47,000	
	---	---	24,000	24,115	35,000	31,000	39,500	40,000	74,000	38,000	28,100	35,000	
	---	---	21,750	---	---	---	33,450	32,500	---	---	22,000	25,000	
	---	---	23,500	24,115	35,000	31,000	41,633	40,500	74,000	38,000	33,367	36,783	
	---	---	1,732	---	---	---	11,175	9,000	---	19,385	14,724	13,768	
	0	0	4	1	1	1	6	4	1	2	3	23	
TOTAL	---	24,000	25,800	31,475	37,000	38,382	43,500	43,925	42,401	49,000	44,000	38,000	
	---	23,000	22,486	27,000	31,683	32,000	35,000	36,000	35,517	37,000	30,000	30,000	
	---	19,620	19,100	22,075	25,900	25,000	28,000	30,000	27,900	30,000	24,000	23,500	
	---	21,844	22,478	29,524	33,029	33,071	39,636	37,928	37,022	40,663	35,034	32,584	
	---	2,892	5,076	22,943	16,630	11,899	25,480	12,500	13,250	16,390	17,015	17,728	
	0	39	251	280	214	154	175	214	94	87	59	1,967	

TABLE-1.5.3

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS
by REGION and YEARS SINCE BS
1981 Survey of ACS Members

REGION	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Pacific	---	---	31,800	36,000	38,385	42,150	50,000	50,112	50,000	52,675	37,875	44,000	- 75th %-ile
	---	---	30,000	31,600	32,000	36,000	39,000	45,780	39,000	44,028	31,000	35,000	- Median
	---	---	26,144	25,150	25,000	30,750	32,250	36,000	34,538	34,366	23,625	29,700	- 25th %-ile
	---	---	28,649	31,566	32,842	37,296	42,120	46,475	41,500	52,179	32,418	37,727	- Mean
	---	---	5,483	10,194	10,258	10,711	17,495	17,103	10,838	36,526	15,054	15,831	- Std. Dev.
	0	0	34	82	80	78	57	71	41	22	20	485	- Count
Mountain	---	---	27,000	36,405	34,300	38,850	42,425	50,000	50,000	41,680	48,500	39,925	
	---	---	18,000	28,400	27,000	33,146	36,450	32,000	35,000	36,534	40,564	31,400	
	---	---	17,125	23,350	22,000	26,350	26,200	30,000	31,400	30,500	27,282	25,000	
	---	---	21,250	29,200	28,508	33,053	42,593	40,019	37,933	39,414	38,782	33,879	
	---	---	5,453	7,943	8,784	8,542	39,457	14,929	10,655	12,088	11,620	18,734	
	0	0	5	21	43	21	24	15	11	8	4	152	
WN Central	---	---	30,020	32,500	37,365	40,500	39,050	52,750	39,300	45,742	30,000	38,575	
	---	---	28,250	26,951	28,500	32,000	32,000	43,000	30,700	37,850	27,300	30,000	
	---	---	22,725	21,000	22,575	26,500	24,758	29,963	25,750	34,000	19,250	24,813	
	---	---	26,688	26,843	30,079	34,452	33,406	42,289	34,263	40,056	26,923	32,521	
	---	---	6,077	6,854	9,773	11,345	10,550	14,945	12,522	8,079	7,855	11,299	
	0	0	26	41	54	51	33	32	14	18	15	284	
WS Central	---	---	31,850	35,000	42,125	42,600	50,745	60,000	48,500	55,885	70,000	45,000	
	---	---	29,590	32,000	35,300	36,000	37,750	46,500	44,400	49,000	33,000	34,550	
	---	---	21,613	24,500	24,731	27,500	28,500	34,000	39,418	34,113	24,915	27,500	
	---	---	27,534	31,809	34,054	36,873	39,480	46,258	44,252	45,964	58,901	37,545	
	---	---	6,637	10,179	10,289	14,494	12,754	15,944	10,481	13,998	63,322	17,512	
	0	0	34	63	68	55	30	46	17	20	11	344	
EN Central	---	---	32,000	35,150	39,950	44,000	46,200	51,875	58,075	51,000	46,375	43,100	
	---	24,840	29,350	31,000	33,000	35,640	36,960	44,050	46,000	41,137	35,000	34,800	
	---	---	25,556	24,970	26,050	28,250	30,000	36,000	36,550	36,250	28,000	28,000	
	---	24,840	29,698	29,619	33,877	36,750	39,214	47,491	50,174	44,668	40,556	37,402	
	---	---	18,562	7,673	10,713	11,717	13,361	18,857	21,293	12,519	23,219	15,688	
	0	1	70	136	197	141	102	92	62	49	43	893	
ES Central	---	---	32,500	31,150	38,025	41,900	40,750	49,000	71,250	42,500	45,000	40,000	
	---	---	30,000	26,000	32,000	35,700	32,000	40,000	54,500	38,300	30,780	32,000	
	---	---	20,225	19,100	24,450	27,000	25,250	32,000	30,566	27,425	23,000	25,000	
	---	---	27,557	26,047	32,934	37,671	33,320	42,198	52,719	39,313	36,311	34,735	
	---	---	5,603	6,955	11,963	14,097	10,481	19,998	27,415	16,309	14,630	15,055	
	0	0	14	25	34	25	24	15	10	8	7	162	
Mid Atlantic	---	---	31,000	36,000	40,000	47,000	52,250	54,000	57,600	60,000	47,000	46,000	
	---	31,000	29,000	30,000	33,250	40,000	40,680	45,000	48,000	48,000	37,800	36,500	
	---	---	25,300	24,798	27,312	30,375	32,550	35,200	36,800	39,000	32,000	29,000	
	---	31,000	27,791	30,386	34,621	40,460	44,719	47,374	47,536	51,091	40,084	39,025	
	---	---	6,673	8,531	10,941	14,686	18,419	18,933	16,881	20,512	15,106	16,104	
	0	1	85	195	188	170	118	127	71	69	59	1,083	
So Atlantic	---	---	31,275	35,000	40,000	45,000	48,125	50,700	50,000	50,112	44,500	45,000	
	---	---	29,380	28,925	34,200	36,320	41,000	46,700	45,000	45,600	35,033	36,000	
	---	---	24,625	21,000	25,912	29,000	33,150	37,750	38,000	37,000	29,184	28,787	
	---	---	27,439	29,313	33,570	37,018	42,146	48,476	43,595	46,121	36,597	37,447	
	---	---	5,743	9,739	9,485	11,289	16,044	22,496	11,063	18,412	11,509	14,948	
	0	0	44	112	146	111	93	77	43	51	33	710	
New England	---	---	30,600	33,000	40,000	42,000	45,925	50,000	46,625	46,550	45,500	42,000	
	---	---	26,000	27,000	33,000	35,000	37,250	42,000	42,500	33,200	36,000	33,200	
	---	---	18,225	20,000	24,500	26,000	29,518	32,000	37,325	26,900	32,150	25,250	
	---	---	25,247	27,169	33,598	35,369	38,311	44,125	45,935	36,727	37,321	34,549	
	---	---	6,658	9,030	9,840	12,475	10,260	17,538	20,787	13,518	10,573	13,501	
	0	0	25	68	65	43	34	35	20	17	12	319	
No response	---	---	31,000	33,000	46,000	39,500	48,950	63,625	50,556	72,625	44,000	48,500	
	---	---	28,500	29,224	42,000	30,000	39,000	58,500	50,000	45,250	33,000	35,500	
	---	---	25,000	23,500	24,350	25,100	32,250	35,619	39,565	39,250	30,000	29,168	
	---	---	28,167	27,103	37,132	32,022	40,433	52,528	46,048	52,375	37,057	39,321	
	---	---	3,014	6,470	12,189	9,725	9,828	15,894	7,243	19,137	9,968	13,919	
	0	0	3	7	11	9	6	10	5	4	7	62	
TOTAL	---	---	31,500	35,000	40,000	44,000	48,000	52,000	52,000	52,000	45,000	44,000	
	---	27,920	29,000	30,000	33,000	36,000	38,100	45,000	43,250	43,028	35,000	35,000	
	---	---	25,000	23,500	25,000	28,850	30,458	35,000	35,000	35,083	28,000	27,888	
	---	27,920	27,824	29,642	33,396	37,369	40,789	46,542	45,535	46,309	38,546	37,146	
	---	4,356	10,127	8,897	10,426	12,666	17,262	18,561	16,828	19,279	21,463	15,616	
	0	2	340	750	886	704	521	520	294	266	211	4,494	

TABLE-2.1.1

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC CHEMISTS - MEN Only
by DEGREE and YEARS SINCE BS
1981 Survey of ACS Members

	YEARS SINCE BS											
HIGHEST DEGREE	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Bachelors	23,600	22,000	25,800	32,823	36,500	39,500	41,000	45,000	50,000	48,000	32,280	37,500 - 75th %-ile
	18,400	19,600	22,700	27,576	31,900	33,000	35,000	36,500	40,000	40,000	25,000	29,600 - Median
	17,000	17,300	19,500	23,986	26,000	29,100	29,177	30,000	30,000	32,000	23,774	23,000 - 25th %-ile
	20,061	20,198	23,202	28,716	32,728	34,907	36,830	40,695	43,253	41,334	27,085	31,984 - Mean
	5,551	4,760	5,853	7,282	10,163	9,532	12,124	21,247	19,446	14,241	7,112	14,666 - Std. Dev.
	19	171	299	230	162	159	146	271	102	91	7	1,657 - Count
Masters	---	24,500	26,000	32,850	39,000	42,000	45,000	45,000	49,075	51,500	50,000	40,000
	---	23,000	23,000	28,500	33,519	35,000	38,428	38,000	40,000	40,000	34,500	32,000
	---	20,000	20,000	24,725	27,255	30,000	30,000	33,000	31,875	32,750	26,120	25,311
	---	22,377	23,441	31,957	34,044	36,888	41,966	40,216	41,406	44,333	38,836	35,084
	---	2,317	4,434	26,570	9,913	11,712	23,292	12,136	13,388	16,171	18,209	17,800
	0	27	174	198	162	103	132	173	60	69	42	1,140
Doctorate	---	24,840	32,000	37,000	42,000	48,000	50,500	55,000	55,350	58,000	48,750	48,000
	---	24,840	30,000	33,000	37,000	42,000	43,680	48,000	48,000	47,984	38,500	39,000
	---	24,840	27,975	30,000	32,000	35,750	37,000	40,000	40,000	39,000	32,200	32,048
	---	24,840	30,580	33,998	37,665	43,104	46,263	50,839	50,550	50,679	42,681	41,765
	---	---	10,508	7,336	9,332	11,892	16,144	18,853	17,168	21,389	17,578	15,408
	0	1	226	470	549	400	299	357	189	174	125	2,790
No Response	---	---	---	---	---	---	---	---	---	---	48,000	48,000
	---	---	---	---	---	---	---	---	---	---	36,000	36,000
	---	---	---	---	---	---	---	---	---	---	31,000	31,000
	---	---	---	---	---	---	---	---	---	---	39,452	39,452
	---	---	---	---	---	---	---	---	---	---	18,339	18,339
	0	0	0	0	0	0	0	0	0	0	15	15
TOTAL	23,600	22,500	29,760	35,625	41,000	45,600	48,325	50,000	53,500	53,550	48,000	44,000
	18,400	20,000	25,000	31,000	35,000	39,000	40,000	42,000	45,000	43,330	37,000	35,000
	17,000	17,916	21,000	26,400	30,000	32,375	33,000	34,410	36,000	35,033	30,000	28,000
	20,061	20,517	25,647	32,195	36,077	40,168	42,893	45,113	46,867	46,822	40,993	37,506
	5,551	4,562	8,170	14,196	9,817	11,908	17,625	19,200	17,717	19,057	17,695	16,320
	19	199	699	898	873	662	577	801	351	334	189	5,602

TABLE-2.1.2

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC CHEMISTS - WOMEN Only
by DEGREE and YEARS SINCE BS
1981 Survey of ACS Members

	YEARS SINCE BS											
HIGHEST DEGREE	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Bachelors	21,103	21,000	24,000	27,164	29,650	30,694	33,000	31,000	37,500	25,908	---	25,350 - 75th %-ile
	17,700	18,543	21,000	23,993	25,000	24,000	31,400	28,000	26,236	25,065	21,600	21,500 - Median
	15,275	15,875	18,578	22,925	22,122	20,887	25,200	24,000	23,600	23,285	---	18,000 - 25th %-ile
	18,078	18,409	23,293	24,084	27,717	25,679	30,192	27,081	29,909	24,753	21,600	22,907 - Mean
	3,977	3,541	17,531	4,122	10,700	6,322	6,874	5,207	8,541	1,402	---	11,320 - Std. Dev.
	20	86	93	26	25	17	11	14	15	4	1	312 - Count
Masters	---	24,125	25,900	32,000	34,750	31,125	36,585	38,000	38,443	---	33,750	30,950
	---	23,000	22,000	27,000	29,645	26,250	30,000	33,750	34,000	36,650	23,000	26,000
	---	18,975	18,775	24,240	26,950	24,184	27,750	24,388	24,875	---	20,575	21,850
	---	21,625	22,264	27,661	38,274	28,449	31,794	32,271	31,889	36,650	25,763	27,827
	---	3,245	4,849	6,081	43,931	8,082	5,137	8,493	8,328	3,323	10,144	16,367
	0	10	56	39	21	16	14	12	10	2	8	188
Doctorate	---	---	31,400	32,905	39,000	41,500	43,000	40,773	39,500	50,000	33,000	37,213
	---	31,000	30,000	29,450	33,600	34,258	37,414	38,026	30,000	43,000	28,500	30,500
	---	---	28,650	27,027	28,600	32,012	28,125	34,979	22,000	39,000	26,700	28,425
	---	31,000	29,765	30,229	33,287	36,818	36,166	44,444	30,500	44,000	29,321	32,547
	---	---	3,793	5,665	7,426	7,460	7,300	22,872	11,547	5,568	7,264	8,761
	0	1	33	40	34	16	8	8	7	3	16	166
No Response	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	51,000	51,000
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	51,000	51,000
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	0	0	0	1	1
TOTAL	21,103	21,500	27,352	31,000	35,725	34,199	37,354	38,000	37,568	41,000	33,508	30,500
	17,700	19,000	22,493	27,654	29,573	29,820	30,800	31,000	30,707	34,300	27,900	25,000
	15,275	16,196	19,042	24,000	24,625	24,000	27,250	24,950	22,775	25,065	22,000	20,150
	18,078	18,870	24,150	27,754	32,855	30,221	32,320	32,998	30,657	33,812	28,763	26,735
	3,977	3,821	13,158	5,947	23,720	8,602	6,521	13,874	8,925	9,583	9,241	13,060
	20	97	182	105	80	49	33	34	32	9	26	667

TABLE-2.2.1

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC B.S. CHEMISTS
by SELECTED SATATES and YEARS SINCE BS
1981 Survey of ACS Members

SELECTED STATES	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
California	22,000	22,750	26,500	27,654	35,450	38,475	39,780	42,750	50,000	44,925	32,280	36,550	- 75th %-ile
	18,000	20,700	23,400	25,800	31,000	33,840	36,000	35,850	40,500	43,250	25,000	29,000	- Median
	17,000	15,900	21,000	21,300	24,405	29,625	29,700	31,000	32,500	32,750	17,000	23,374	- 25th %-ile
	19,000	20,492	27,175	25,642	31,182	35,726	35,782	38,147	44,652	40,861	24,760	31,927	- Mean
	2,646	6,127	23,996	5,815	8,015	8,786	5,716	9,485	15,423	8,545	7,643	15,307	- Std. Dev.
	3	16	47	24	18	20	15	32	15	12	3	205	- Count
Texas	20,150	23,040	29,175	36,000	37,000	42,450	44,100	44,250	49,200	---	---	36,000	
	17,050	19,392	20,950	27,000	29,500	34,750	36,000	32,500	36,000	43,700	---	27,700	
	14,625	16,500	17,354	22,000	20,718	27,000	33,110	29,163	27,220	---	---	20,475	
	17,275	20,643	23,686	28,915	29,771	35,410	37,623	35,831	37,768	43,700	---	29,301	
	2,904	4,502	8,879	8,370	9,868	9,690	6,930	10,550	11,101	5,233	---	10,565	
	4	19	14	11	5	10	13	8	5	2	0	92	
Illinois	24,100	22,200	25,054	34,000	48,125	39,150	44,000	43,365	48,000	47,125	---	35,000	
	20,500	20,500	22,000	30,000	34,150	34,000	38,000	34,550	35,000	36,470	21,600	28,000	
	17,900	17,375	18,720	26,383	29,000	28,650	32,768	29,000	24,250	27,435	---	22,000	
	20,833	20,108	22,645	30,294	36,642	35,260	38,178	37,651	41,278	37,010	21,600	30,889	
	3,113	3,026	4,728	5,282	9,766	10,329	7,989	17,040	24,532	10,318	---	13,015	
	3	13	25	21	10	10	6	20	9	4	1	122	
Michigan	---	22,000	26,963	32,500	34,000	42,000	50,000	38,000	54,000	55,000	---	34,000	
	---	20,900	23,000	29,000	30,780	32,000	39,672	35,340	36,240	45,000	---	26,963	
	---	18,600	19,500	24,700	27,736	26,850	24,000	29,400	20,100	32,000	---	22,000	
	---	19,995	23,497	29,920	30,788	33,940	36,591	40,067	36,888	44,000	---	29,306	
	---	2,639	6,023	6,846	3,276	8,085	12,935	21,654	17,528	11,533	---	12,088	
	0	15	27	19	7	5	7	11	5	3	0	99	
Ohio	---	21,931	23,910	36,750	32,500	39,000	37,275	44,300	56,000	51,700	---	34,600	
	19,820	19,978	21,840	29,750	29,280	33,000	30,000	32,825	36,000	41,760	---	27,000	
	---	17,175	17,400	24,200	25,000	28,000	25,600	25,240	24,000	25,000	---	21,788	
	19,820	19,902	21,904	31,755	30,509	33,328	32,305	34,962	46,643	40,994	---	29,926	
	2,008	3,856	5,747	8,521	10,574	7,285	9,584	10,196	26,831	14,974	---	12,154	
	2	24	21	13	23	15	15	22	7	7	0	149	
New Jersey	23,600	20,725	25,375	35,700	39,875	41,000	47,500	47,000	50,000	45,000	---	41,350	
	22,320	19,175	22,250	28,000	33,500	34,000	37,000	39,000	44,000	37,000	---	30,000	
	16,000	16,845	20,300	23,500	22,888	29,820	30,770	30,000	29,533	30,000	---	23,000	
	20,640	19,263	22,850	30,097	32,023	37,565	42,016	39,748	43,202	39,918	---	33,681	
	4,069	2,973	3,426	7,409	11,092	14,638	17,195	15,467	12,348	16,056	---	14,561	
	3	18	26	19	20	15	25	31	14	15	0	186	
New York	20,845	22,204	29,000	29,250	35,100	38,182	44,250	46,500	59,500	57,000	---	35,910	
	18,300	20,000	22,600	26,400	29,300	30,000	33,660	34,000	35,500	41,600	---	29,000	
	17,750	17,628	19,000	23,395	26,000	25,500	28,568	30,000	27,125	37,025	---	21,550	
	19,098	20,213	23,057	27,630	30,385	31,627	38,573	38,190	45,438	45,925	---	30,704	
	1,624	5,132	5,853	7,484	7,668	6,853	15,248	11,839	25,399	12,123	---	13,181	
	5	23	27	13	11	15	10	29	8	8	0	149	
Pennsylvania	20,000	19,600	24,708	37,968	34,875	53,000	42,875	45,000	41,000	42,750	---	36,500	
	16,920	17,500	21,000	29,500	29,950	30,000	35,500	38,500	35,000	37,250	23,774	25,608	
	15,200	15,100	18,725	21,507	23,978	22,250	22,500	28,785	29,000	31,250	---	20,000	
	17,373	17,428	21,591	29,586	29,371	36,542	34,366	39,482	36,267	37,738	23,774	29,010	
	2,432	2,794	4,975	8,938	5,479	17,117	12,363	17,456	7,740	10,372	---	12,743	
	3	25	32	16	16	12	12	22	11	10	1	160	
Other	23,363	21,740	25,165	30,200	36,500	39,000	38,628	45,000	48,922	53,750	39,540	34,167	
	15,900	18,900	22,000	26,305	30,000	33,000	32,000	36,000	35,000	35,000	27,000	26,800	
	13,338	16,200	18,768	23,000	24,500	29,100	27,770	30,000	28,530	25,800	25,000	21,000	
	18,933	19,309	22,630	27,362	32,363	33,823	34,022	42,172	40,811	40,558	30,513	29,894	
	7,042	5,035	5,917	7,037	12,656	8,765	11,084	28,753	21,497	18,092	7,881	16,143	
	16	107	171	117	75	75	53	107	44	33	3	801	
No Response	---	---	29,100	31,800	36,075	34,574	---	66,750	46,500	---	---	40,625	
	18,000	21,000	24,000	22,000	32,500	27,400	42,000	40,250	45,000	33,720	---	31,400	
	---	---	20,000	21,500	24,375	18,439	---	36,000	29,000	---	---	22,875	
	18,000	21,000	24,367	25,720	31,633	26,804	42,000	49,250	40,167	33,720	---	33,482	
	---	---	4,561	5,709	7,496	8,362	0	20,980	9,700	---	---	13,875	
	1	1	3	5	6	4	2	6	3	1	0	32	
TOTAL	21,180	21,770	25,292	32,000	35,363	39,000	40,000	45,000	49,115	48,000	30,960	35,700	
	18,000	19,200	22,000	27,000	30,100	32,760	35,000	36,000	37,000	38,500	25,000	28,000	
	15,850	16,800	19,100	23,451	25,000	28,750	29,000	31,000	28,810	31,000	22,144	21,600	
	18,968	19,515	23,205	28,238	31,694	34,316	36,274	39,884	41,525	40,636	26,399	30,510	
	4,810	4,498	9,915	7,160	10,466	9,915	11,956	20,897	18,785	14,334	6,864	14,572	
	40	261	393	258	192	181	158	288	121	95	8	1,995	

TABLE-2.2.2

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC M.S. CHEMISTS
by SELECTED SATATES and YEARS SINCE BS
1981 Survey of ACS Members

SELECTED STATES	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
California	---	---	26,000	32,000	36,722	41,250	42,450	51,375	---	61,250	55,313	36,625	- 75th %-ile
	---	---	23,100	28,000	32,500	34,000	36,000	37,188	38,000	33,370	38,625	30,650	- Median
	---	---	19,500	24,000	24,500	28,350	29,000	31,155	---	27,435	24,000	24,252	- 25th %-ile
	---	---	23,260	27,970	32,116	36,874	37,677	39,585	38,000	40,685	39,313	32,509	- Mean
	---	---	4,846	5,453	10,689	13,054	12,001	13,228	19,799	19,894	16,489	11,862	- Std. Dev.
	0	0	19	27	18	13	7	20	2	4	4	114	- Count
Texas	---	24,625	27,000	35,750	42,000	35,750	46,300	34,100	49,000	62,325	49,250	40,400	
	---	23,500	25,000	31,300	38,000	35,000	34,000	33,600	42,228	52,500	25,000	33,000	
	---	20,625	18,700	25,000	34,250	31,000	28,800	24,500	38,000	40,675	14,250	25,000	
	---	22,833	22,637	40,539	40,811	33,700	36,757	33,769	43,076	51,125	29,530	36,118	
	---	2,160	5,954	46,298	13,967	3,401	9,658	10,578	5,549	12,290	13,502	25,490	
	0	6	11	21	9	5	11	7	3	8	4	85	
Illinois	---	25,000	29,125	32,363	40,250	39,813	39,264	42,875	62,000	40,090	108,250	37,000	
	---	23,700	23,190	28,000	34,500	34,000	33,000	34,000	62,000	36,000	55,250	31,500	
	---	21,000	20,275	23,713	31,235	32,450	28,000	23,188	26,500	29,900	43,125	24,782	
	---	23,233	24,716	28,686	38,447	36,045	34,754	35,125	50,167	35,196	68,875	33,610	
	---	2,040	5,448	7,180	12,692	6,062	10,750	13,177	20,496	5,458	38,167	14,441	
	0	3	20	21	14	10	11	6	3	5	4	97	
Michigan	---	---	26,200	33,000	48,000	38,050	51,850	46,500	41,000	52,000	34,580	38,700	
	---	24,000	23,100	29,800	31,666	36,500	26,292	39,800	35,788	50,000	30,000	31,000	
	---	---	20,500	24,500	23,600	28,500	23,540	34,000	31,644	40,000	28,000	24,350	
	---	24,000	23,460	41,867	34,109	34,350	35,414	39,692	36,144	47,333	31,032	35,427	
	---	---	3,101	51,525	12,482	5,653	16,920	8,355	4,858	6,429	5,871	25,365	
	0	1	12	15	7	4	5	13	4	3	5	69	
Ohio	---	25,200	24,000	27,000	38,000	43,500	45,000	43,450	50,500	---	---	39,250	
	---	23,300	22,800	27,000	31,000	35,176	33,830	36,000	31,750	44,824	33,000	31,685	
	---	22,500	18,840	22,000	28,310	28,950	30,421	32,000	25,410	---	---	25,100	
	---	23,667	21,913	24,636	33,178	35,947	39,627	40,848	39,018	44,824	33,000	33,717	
	---	1,387	3,867	4,905	8,322	8,554	13,852	18,352	19,335	---	---	14,060	
	0	3	19	11	13	16	16	25	8	1	1	113	
New Jersey	---	22,200	26,625	35,375	42,200	42,000	48,250	41,750	56,713	54,250	45,000	40,750	
	---	19,500	22,250	28,550	34,000	30,600	40,000	38,125	41,250	42,000	40,000	31,300	
	---	16,763	20,000	25,675	28,235	26,500	30,639	30,000	38,525	35,725	29,260	26,000	
	---	19,488	23,217	36,424	44,599	33,082	47,640	37,598	45,855	44,994	37,194	37,558	
	---	2,889	4,440	40,480	43,207	7,938	34,574	8,211	13,192	12,789	11,115	28,011	
	0	4	24	30	21	11	18	20	10	12	7	157	
New York	---	24,500	26,000	34,250	42,030	65,000	42,000	48,000	37,950	40,400	---	39,060	
	---	23,500	24,400	27,140	33,350	50,000	33,639	41,000	33,000	35,600	28,500	31,000	
	---	19,750	22,400	22,425	23,900	38,300	27,500	30,325	28,688	31,600	---	25,000	
	---	22,400	24,025	27,816	33,174	47,200	46,176	41,198	32,356	41,656	28,500	35,017	
	---	3,380	4,969	7,309	9,310	17,776	49,935	11,617	6,399	22,504	9,192	21,983	
	0	5	17	18	12	7	15	20	8	9	2	113	
Pennsylvania	---	---	28,340	30,800	37,250	48,250	44,850	50,000	49,575	54,160	---	40,000	
	---	22,000	23,250	27,250	33,200	27,000	38,428	39,000	41,750	40,000	27,580	30,000	
	---	---	22,000	20,000	21,250	18,208	28,500	33,000	35,193	32,000	---	22,375	
	---	22,000	24,569	26,318	31,170	35,466	38,674	40,600	41,532	42,053	27,580	33,340	
	---	0	4,111	7,733	10,675	21,981	17,557	11,757	8,565	11,222	2,008	13,874	
	0	2	14	18	10	10	18	15	6	3	2	98	
Other	---	24,675	25,650	31,300	36,750	37,240	43,550	45,000	42,750	49,850	49,500	37,853	
	---	21,700	22,000	28,000	30,000	31,082	36,360	38,000	35,517	39,890	34,000	29,790	
	---	19,510	19,000	22,800	25,250	25,000	30,000	32,000	28,000	30,000	23,500	23,500	
	---	21,905	22,342	27,842	30,796	32,585	42,554	38,967	35,929	43,534	34,774	31,910	
	---	2,679	4,775	7,474	8,020	10,814	27,993	11,282	12,020	18,634	12,604	14,150	
	0	13	93	88	89	50	49	63	30	26	19	520	
No Response	---	---	24,750	---	---	---	50,250	49,000	---	---	50,000	47,000	
	---	---	24,000	24,115	35,000	31,000	39,500	40,000	74,000	38,000	28,100	35,000	
	---	---	21,750	---	---	---	33,450	32,500	---	---	22,000	25,000	
	---	---	23,500	24,115	35,000	31,000	41,633	40,500	74,000	38,000	33,367	36,783	
	---	---	1,732	---	---	---	11,175	9,000	---	18,385	14,724	13,768	
	0	0	4	1	1	1	6	4	1	2	3	23	
TOTAL	---	24,250	26,000	32,006	37,575	40,000	44,161	45,000	45,000	50,500	45,000	38,550	
	---	23,000	22,800	28,000	32,050	33,200	36,000	38,000	38,000	40,000	33,000	30,250	
	---	19,900	19,990	24,000	26,524	27,000	29,910	32,000	30,000	32,250	25,000	24,245	
	---	22,174	23,024	30,611	35,896	34,882	41,299	39,263	39,079	43,608	36,710	33,730	
	---	2,574	4,676	23,980	17,105	11,850	26,393	12,130	13,365	16,063	17,587	18,303	
	0	37	233	250	194	127	156	193	75	73	51	1,389	

TABLE-2.2.3

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC Ph.D. CHEMISTS
by SELECTED SATATES and YEARS SINCE BS
1981 Survey of ACS Members

SELECTED STATES	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
California	---	---	33,650	37,695	42,375	44,000	56,000	55,000	49,175	56,650	44,875	48,000	- 75th %-ile
	---	---	30,000	33,900	36,000	39,250	48,000	49,500	41,000	44,028	33,750	38,000	- Median
	---	---	29,000	31,000	30,250	34,904	38,000	41,031	35,750	38,750	25,875	32,125	- 25th %-ile
	---	---	30,426	35,527	37,617	40,984	50,011	52,290	43,077	49,211	37,800	41,298	- Mean
	---	---	3,958	8,750	9,505	10,300	21,615	19,155	9,251	19,130	15,704	14,977	- Std. Dev.
	0	0	26	54	44	38	27	39	16	14	10	268	- Count
Texas	---	---	32,850	48,500	45,000	51,375	55,250	65,856	51,000	60,340	84,000	51,250	
	---	---	29,600	36,000	40,500	39,450	49,000	52,000	40,000	55,000	70,000	41,000	
	---	---	27,725	31,750	36,000	36,070	37,720	43,000	40,000	47,500	45,000	35,000	
	---	---	30,557	39,998	40,765	47,445	47,492	53,427	43,667	54,136	66,333	44,343	
	---	---	4,108	10,958	6,978	18,929	9,394	18,362	6,351	7,087	19,757	14,543	
	0	0	14	17	27	16	9	19	3	5	3	113	
Illinois	---	---	32,000	33,607	41,600	47,875	46,250	65,575	69,325	53,050	45,500	48,000	
	---	24,840	30,700	31,650	36,200	39,800	40,000	50,000	57,750	50,500	35,000	36,260	
	---	---	26,000	28,825	30,156	33,575	36,000	42,222	39,450	36,500	22,500	31,665	
	---	24,840	29,278	31,438	36,415	40,708	41,942	59,261	56,209	49,170	34,056	40,692	
	---	---	3,741	4,347	8,447	7,729	6,945	26,033	17,335	13,022	16,057	15,422	
	0	1	9	26	43	12	14	16	12	12	9	154	
Michigan	---	---	31,750	38,000	45,000	46,838	60,400	52,500	58,300	63,119	48,531	46,838	
	---	---	29,875	35,000	36,800	43,500	48,000	49,400	46,000	51,000	30,000	38,000	
	---	---	27,005	32,070	31,967	38,450	42,500	39,500	38,000	43,000	28,250	32,000	
	---	---	29,641	35,712	39,482	43,541	49,723	49,492	50,125	52,648	35,729	41,318	
	---	---	2,929	4,231	9,711	10,246	13,567	12,332	15,199	12,053	12,208	12,027	
	0	0	16	29	31	16	13	13	15	5	6	144	
Ohio	---	---	33,125	35,875	40,000	48,125	49,325	48,000	47,600	41,825	40,900	43,000	
	---	---	31,250	31,340	35,050	42,500	38,303	44,100	44,500	40,000	35,000	37,000	
	---	---	29,275	28,262	30,840	35,125	33,610	39,980	37,180	35,950	29,876	31,850	
	---	---	30,829	32,266	36,226	43,325	41,617	45,278	42,858	40,181	36,828	38,624	
	---	---	2,781	4,881	10,768	9,777	14,781	12,081	7,520	5,716	8,770	10,674	
	0	0	22	24	42	30	20	25	13	12	9	197	
New Jersey	---	---	32,500	37,150	45,000	48,500	62,000	60,000	62,413	60,000	45,500	48,625	
	---	31,000	30,500	32,670	39,000	44,000	48,500	47,000	52,000	50,500	37,140	39,950	
	---	---	27,950	29,100	32,500	35,500	39,500	40,000	40,000	39,700	31,375	32,500	
	---	31,000	31,034	33,932	40,497	44,419	52,033	50,702	53,315	50,990	37,779	42,548	
	---	---	4,968	7,879	11,883	13,029	18,956	14,039	19,059	12,473	9,607	14,502	
	0	1	33	68	71	55	33	41	24	26	22	374	
New York	---	---	34,000	38,300	40,650	52,500	51,300	60,250	54,250	65,000	52,000	48,700	
	---	---	29,000	33,150	35,000	42,125	41,730	45,000	48,000	60,000	39,800	39,000	
	---	---	27,000	27,100	29,000	35,675	36,000	34,800	38,850	41,000	29,400	30,000	
	---	---	28,859	32,639	35,112	44,601	44,929	53,644	45,862	56,200	45,555	42,014	
	---	---	5,874	7,530	8,346	15,620	13,801	29,400	13,886	16,819	23,120	17,820	
	0	0	19	36	37	46	26	30	13	15	11	233	
Pennsylvania	---	---	30,950	37,000	39,960	48,000	56,850	54,125	59,400	59,250	67,000	48,000	
	---	---	29,200	32,450	34,500	42,000	46,250	47,600	51,250	44,500	46,000	38,620	
	---	---	27,850	29,188	30,000	33,000	32,900	40,000	41,750	39,000	37,800	32,000	
	---	---	29,560	33,011	33,997	43,269	49,580	48,010	51,138	55,321	50,891	41,811	
	---	---	2,917	6,089	8,141	15,541	22,391	11,237	11,494	36,144	14,542	16,991	
	0	0	16	45	35	27	26	30	16	14	11	220	
Other	---	---	32,000	36,000	41,450	47,075	48,800	52,000	54,750	51,000	45,500	46,000	
	---	---	30,000	32,048	36,660	41,000	43,000	48,000	46,100	45,300	35,825	38,000	
	---	---	27,950	28,760	31,100	35,000	35,875	40,000	39,125	38,160	29,550	31,668	
	---	---	30,918	33,166	36,996	41,665	43,680	49,853	50,047	49,627	40,862	40,601	
	---	---	14,974	7,131	8,623	11,143	14,079	19,263	21,057	24,865	20,054	15,811	
	0	0	102	208	253	182	141	147	84	72	56	1,245	
No Response	---	---	---	33,000	47,500	48,500	56,000	60,000	50,084	72,625	48,500	50,028	
	---	---	29,750	29,400	43,400	39,500	41,000	57,000	47,722	45,250	43,000	41,900	
	---	---	---	28,162	30,325	31,250	33,500	36,000	36,625	39,250	32,700	32,850	
	---	---	29,750	30,345	40,681	39,750	43,500	51,471	44,810	52,375	41,080	42,396	
	---	---	1,768	2,587	10,741	8,958	11,456	16,305	7,729	19,137	8,587	12,704	
	0	0	2	5	8	4	3	7	4	4	5	42	
TOTAL	---	---	32,000	37,000	42,000	48,000	50,400	55,000	55,000	57,000	46,334	47,000	
	---	27,920	30,000	33,000	36,800	41,629	43,550	48,000	47,100	47,100	37,000	38,260	
	---	---	28,000	29,500	31,500	35,075	36,988	40,000	39,525	39,000	30,000	32,000	
	---	27,920	30,476	33,680	37,423	42,738	45,849	50,668	49,405	50,396	40,951	41,182	
	---	4,356	9,907	7,291	9,376	12,324	16,062	18,893	17,475	21,185	17,373	15,301	
	0	2	259	512	591	426	312	367	200	179	142	2,990	

TABLE-2.3.1

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC B.S. CHEMISTS
by ACS LOCAL SECTION and YEARS SINCE BS
1981 Survey of ACS Members

LOCAL SECTION	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
So California	---	25,375	28,437	26,900	36,250	38,475	39,000	48,975	40,375	52,250	---	35,550	- 75th %-ile
	17,500	21,500	23,200	25,050	28,500	32,895	35,500	35,400	36,250	42,000	17,000	28,750	- Median
	---	17,600	19,925	20,450	22,605	29,625	35,000	31,000	23,875	36,250	---	22,420	- 25th %-ile
	17,500	21,288	22,860	25,984	29,530	35,774	36,500	38,568	33,500	43,500	17,000	30,081	- Mean
	707	4,709	6,028	7,081	7,246	10,775	2,380	9,994	9,101	8,505	---	10,547	- Std. Dev.
	2	8	18	10	6	8	4	17	4	4	1	82	- Count
California	---	20,950	24,225	27,654	35,450	40,840	39,585	41,369	57,500	46,500	---	36,375	
	20,000	20,150	23,000	26,150	31,000	32,000	35,694	35,800	43,875	44,600	32,280	28,530	
	---	14,082	20,056	17,145	26,250	28,350	29,059	30,500	34,200	39,875	---	21,682	
	20,000	19,653	22,727	23,196	31,040	34,370	34,254	37,251	47,197	43,283	32,280	30,237	
	2,828	7,159	3,539	6,413	6,887	7,795	5,646	7,479	16,499	6,227	---	11,340	
	2	9	24	12	10	9	8	10	9	6	1	100	
Chicago	---	22,400	25,169	33,709	39,250	39,600	44,000	43,820	44,000	59,025	---	34,500	
	19,200	21,000	23,000	29,750	30,650	34,000	38,000	34,500	33,000	46,750	21,600	27,000	
	---	17,100	20,000	25,150	26,625	28,000	32,768	32,000	25,375	32,105	---	22,000	
	19,200	20,383	23,058	29,691	33,288	35,475	38,178	38,997	40,050	46,468	21,600	30,496	
	1,838	2,936	4,421	5,442	8,015	10,446	7,989	19,132	23,453	16,707	---	13,156	
	2	15	32	26	8	11	6	15	10	6	1	132	
Delaware	---	16,000	33,500	---	---	---	45,500	97,500	62,100	---	---	53,750	
	---	13,150	24,000	33,000	37,950	36,800	38,800	59,500	44,000	60,000	---	38,900	
	---	10,300	19,750	---	---	---	22,850	47,750	36,840	---	---	29,175	
	---	13,150	26,100	33,000	37,950	36,800	35,100	79,333	47,627	60,000	---	44,552	
	---	4,031	7,249	---	6,435	9,617	11,835	64,726	14,251	---	---	34,690	
	0	2	5	1	2	2	5	6	6	1	0	30	
New York	20,325	22,278	25,554	29,875	36,800	38,182	44,000	43,000	48,250	57,000	---	33,155	
	18,150	20,000	22,540	28,250	29,300	30,000	31,500	33,073	41,000	44,500	---	26,950	
	17,625	17,907	18,825	22,500	23,500	27,200	28,890	30,000	27,150	37,025	---	20,300	
	18,700	20,538	22,664	29,175	30,682	31,926	39,361	38,920	38,800	46,175	---	29,222	
	1,568	5,042	5,186	8,753	9,494	6,628	17,894	17,521	11,208	10,503	---	12,647	
	4	22	26	12	9	11	7	19	4	4	0	118	
No Jersey	23,600	20,300	25,750	36,350	39,000	42,500	47,750	47,125	60,000	48,500	---	43,000	
	22,320	19,000	23,880	28,000	32,000	33,000	37,950	39,650	49,500	36,000	---	30,800	
	16,000	16,380	20,700	23,250	22,850	28,400	32,313	29,700	30,000	28,250	---	23,000	
	20,640	19,212	23,222	30,623	32,064	37,574	43,793	39,738	49,864	41,377	---	34,851	
	4,069	3,144	3,287	7,793	11,072	15,560	18,454	16,460	21,012	19,486	---	16,554	
	3	15	17	13	15	13	20	26	11	10	0	143	
No Eastern	35,000	22,500	25,475	30,300	36,630	36,000	33,330	43,000	53,750	93,000	---	31,950	
	30,000	20,000	20,250	26,500	31,900	29,450	30,000	31,500	38,250	26,000	---	25,700	
	14,350	17,750	16,775	22,638	25,500	25,541	29,025	25,000	22,880	23,500	---	20,575	
	26,450	20,043	22,875	28,083	31,420	30,511	30,827	36,773	41,543	47,500	---	28,824	
	10,773	4,651	11,364	8,377	5,532	5,894	4,988	15,405	22,306	39,424	---	13,978	
	3	25	20	12	6	6	10	19	8	3	0	112	
Philadelphia	---	20,000	27,000	25,290	37,250	58,750	44,000	45,000	41,000	43,750	---	39,250	
	14,660	17,825	25,000	22,868	34,750	44,500	38,500	39,000	37,000	34,750	23,774	28,000	
	---	16,575	21,250	20,625	27,200	25,750	27,921	27,400	28,000	27,000	---	21,375	
	14,660	18,138	25,211	22,928	31,900	44,125	37,112	36,538	38,226	36,673	23,774	31,130	
	3,196	2,496	5,724	2,541	8,021	17,480	8,938	9,600	8,038	11,873	---	12,169	
	2	14	9	4	8	8	8	13	7	8	1	82	
Pittsburgh	---	22,750	24,000	43,000	29,750	29,400	51,750	91,750	42,930	---	---	35,625	
	20,000	19,056	21,000	38,922	23,985	29,000	32,000	41,000	35,000	38,000	---	25,850	
	---	16,350	18,500	29,950	21,750	21,000	22,000	35,895	31,000	---	---	20,000	
	20,000	19,928	21,296	36,459	24,795	26,467	35,900	56,215	36,572	38,000	---	29,938	
	---	4,663	2,705	7,617	4,539	4,738	16,188	34,683	7,287	5,657	---	14,634	
	1	9	11	8	6	3	5	4	5	2	0	54	
SE Texas	---	27,000	31,050	40,425	---	52,000	47,000	51,500	50,760	---	---	36,000	
	17,500	22,000	25,000	29,800	30,000	27,000	36,000	33,000	48,000	---	---	28,000	
	---	19,000	23,000	25,625	---	22,000	32,220	30,500	36,000	---	---	22,750	
	17,500	22,573	26,619	31,050	30,000	33,667	38,914	39,400	44,920	---	---	30,796	
	4,950	4,752	6,599	8,050	---	16,073	8,771	11,589	7,847	---	---	10,816	
	2	11	9	4	1	3	7	5	3	0	0	45	
Washington DC	---	19,560	32,000	26,500	35,250	42,000	37,922	50,103	50,000	50,709	---	40,000	
	---	15,597	25,000	23,986	31,000	35,279	32,660	45,750	35,000	48,500	---	32,000	
	---	13,675	20,851	23,000	25,231	31,300	26,150	35,020	33,360	38,000	---	23,986	
	---	16,227	25,265	25,664	31,158	35,542	32,244	41,685	39,453	45,602	---	32,153	
	---	4,075	6,005	4,473	6,324	6,972	6,201	11,156	9,170	7,012	---	10,958	
	0	6	10	9	6	9	4	10	3	6	0	63	
None of Above	21,293	21,552	25,191	32,000	36,000	38,500	39,850	42,375	48,000	45,000	36,405	35,000	
	17,800	18,600	21,700	27,300	30,550	32,232	33,000	35,420	35,000	34,000	26,000	27,360	
	15,374	16,400	18,615	23,481	25,275	28,900	28,000	29,688	27,700	29,000	25,000	21,250	
	18,273	19,263	23,134	28,115	32,766	33,149	34,720	39,034	40,515	37,812	29,135	29,913	
	4,472	4,406	12,554	6,965	11,784	8,333	10,897	21,240	21,477	13,648	7,000	14,693	
	18	119	204	138	108	93	74	140	50	43	4	991	
No Response	---	22,054	28,500	32,160	---	54,750	---	50,000	---	---	---	34,000	
	16,000	19,300	23,000	25,500	29,890	36,500	---	45,000	---	39,000	---	26,000	
	---	18,625	18,400	20,688	---	26,500	---	28,000	---	---	---	20,000	
	16,000	19,993	23,460	26,866	29,890	39,250	---	41,000	---	39,000	---	28,803	
	---	1,971	5,419	7,469	1,259	15,174	---	11,533	---	1,414	---	10,545	
	1	4	7	8	2	4	0	3	0	2	0	31	
TOTAL	21,180	21,800	25,296	32,000	36,000	39,000	40,000	45,000	49,172	48,000	30,960	35,820	
	18,000	19,200	22,050	27,000	30,500	32,630	35,000	36,000	37,250	38,500	25,000	28,000	
	15,850	16,800	19,201	23,480	25,000	28,725	29,000	30,000	29,000	31,000	22,144	21,700	
	18,968	19,581	23,224	28,270	32,058	34,506	36,274	39,937	41,637	40,636	26,399	30,575	
	4,810	4,451	9,921	7,156	10,349	9,942	11,956	20,914	18,823	14,334	6,864	14,582	
	40	259	392	257	187	180	158	287	120	95	8	1,983	

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC M.S. CHEMISTS
by ACS LOCAL SECTION and YEARS SINCE BS
1981 Survey of ACS Members

LOCAL SECTION	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
So California	---	---	26,250	35,000	37,500	40,125	42,450	52,500	---	---	0	38,875 - 75th %-ile
	---	---	23,718	31,000	33,800	36,200	40,200	40,000	38,000	48,000	0	32,750 - Median
	---	---	16,600	24,500	29,500	29,960	34,090	23,000	---	---	0	25,122 - 25th %-ile
	---	---	22,922	29,391	33,811	36,106	38,913	38,700	38,000	48,000	---	33,456 - Mean
	---	---	5,624	6,473	7,437	7,156	4,326	13,455	19,799	31,113	---	11,214 - Std. Dev.
	0	0	10	9	9	10	3	11	2	2	0	56 - Count
California	---	---	26,534	30,000	48,694	62,500	---	45,282	---	---	---	35,750
	---	---	23,000	28,000	35,000	30,850	29,000	35,000	---	35,000	50,625	29,975
	---	---	19,750	23,000	22,050	22,675	---	31,905	---	---	---	23,250
	---	---	23,114	27,117	35,298	38,675	29,000	39,666	---	35,000	50,625	32,144
	---	---	3,552	5,228	16,116	22,842	9,899	13,147	---	---	13,258	12,642
	0	0	5	15	5	4	2	6	0	1	2	40
Chicago	---	24,675	27,200	35,250	38,500	39,813	41,632	44,750	62,000	40,090	125,000	37,000
	---	22,350	22,500	30,100	33,608	34,000	35,500	36,250	62,000	36,000	52,500	31,500
	---	20,250	20,800	24,606	28,173	32,450	26,100	32,250	26,500	29,900	40,000	25,000
	---	22,425	24,546	30,214	36,603	36,045	35,688	39,083	50,167	35,196	72,500	33,442
	---	2,321	4,917	7,400	12,753	6,062	11,839	10,356	20,496	5,458	45,894	14,240
	0	4	23	18	16	10	9	6	3	5	3	97
Delaware	---	---	27,500	31,300	48,000	---	80,000	50,800	---	---	---	45,480
	---	---	25,500	27,000	35,500	33,660	33,180	45,480	57,500	53,000	---	33,660
	---	---	19,650	19,000	35,000	---	27,500	36,250	---	---	---	27,000
	---	---	24,267	25,767	39,500	33,660	60,060	43,916	57,500	53,000	---	41,593
	---	---	4,189	6,242	7,365	---	68,759	7,813	23,335	---	---	33,991
	0	0	6	3	3	1	6	5	2	1	0	27
New York	---	24,400	26,500	37,250	44,000	65,000	48,000	48,000	39,650	56,350	---	42,000
	---	23,750	23,500	27,000	31,700	50,000	36,600	42,000	34,500	39,500	22,000	32,000
	---	21,375	21,900	21,325	25,300	38,300	30,000	34,560	28,688	31,450	---	24,058
	---	22,767	24,698	28,307	35,380	47,486	37,963	41,903	35,731	46,433	22,000	34,922
	---	3,192	4,126	8,470	12,867	17,657	9,226	10,630	11,706	27,035	---	13,905
	0	6	13	16	9	7	8	19	8	6	1	93
No Jersey	---	23,000	26,250	32,750	36,075	35,575	57,625	42,550	60,138	57,500	46,000	40,000
	---	19,800	22,000	28,500	33,050	30,450	44,000	38,250	41,250	43,000	35,000	32,000
	---	15,950	19,590	25,975	28,118	27,375	33,125	32,000	37,700	37,150	24,680	26,750
	---	19,583	22,588	37,359	44,979	32,213	54,250	38,597	47,619	47,200	35,272	38,684
	---	3,530	4,069	43,325	49,368	6,505	41,073	8,027	13,748	13,001	11,923	31,315
	0	3	17	26	16	8	12	17	8	9	5	121
No Eastern	---	---	25,350	34,000	35,375	41,625	41,500	40,000	51,250	---	---	37,000
	---	---	22,650	28,500	28,500	37,000	35,000	35,000	44,000	32,100	23,000	29,000
	---	---	19,250	26,000	26,133	28,932	28,500	29,000	30,480	---	---	23,875
	---	---	22,945	29,068	29,704	34,819	35,000	34,973	41,910	32,100	23,000	30,040
	---	---	5,945	6,488	6,750	8,932	6,671	9,874	11,149	4,101	---	8,793
	0	0	20	15	16	8	5	11	4	2	1	82
Philadelphia	---	22,000	23,000	33,200	43,250	68,500	41,200	51,669	50,050	---	---	42,250
	---	22,000	22,000	29,000	37,700	44,000	36,700	39,763	45,000	52,000	28,080	33,100
	---	19,200	22,000	21,500	29,550	27,000	29,000	27,350	38,045	---	---	23,750
	---	21,067	21,857	28,404	36,280	47,000	35,790	41,350	44,238	52,000	28,080	34,589
	---	1,617	2,593	6,796	9,361	24,238	7,458	14,011	6,064	---	2,715	12,683
	0	3	7	11	10	5	10	8	5	1	2	62
Pittsburgh	---	---	30,450	29,700	36,000	41,875	45,585	61,750	---	54,160	---	43,750
	---	---	26,490	28,260	27,000	24,500	41,500	48,000	---	40,000	29,000	30,900
	---	---	23,350	24,830	19,000	21,375	32,114	35,750	---	32,000	---	25,248
	---	---	26,730	27,597	27,333	29,250	45,030	48,500	---	42,053	29,000	35,986
	---	---	4,003	2,502	8,505	12,059	24,058	13,478	---	11,222	---	16,158
	0	0	6	3	3	4	8	4	0	3	1	32
SE Texas	---	24,750	27,060	37,500	41,500	36,500	47,937	---	---	60,975	57,000	40,600
	---	24,000	26,700	31,300	39,200	35,000	31,374	---	49,000	52,500	24,000	31,650
	---	22,000	23,700	25,000	35,250	27,800	29,100	---	---	42,025	11,000	25,000
	---	23,500	25,407	44,107	38,540	33,100	36,137	---	49,000	51,833	30,667	37,919
	---	1,581	2,864	54,587	3,716	4,651	11,363	---	---	10,327	23,714	31,954
	0	5	6	15	5	3	4	0	1	6	3	48
Washington DC	---	---	26,438	36,653	32,686	49,847	---	50,000	46,700	61,000	51,000	41,500
	---	19,400	20,500	31,500	28,500	45,525	39,750	38,456	41,000	40,000	50,000	33,000
	---	---	18,146	25,500	25,250	33,000	---	32,000	35,033	32,517	20,000	24,950
	---	19,400	22,645	31,218	28,505	42,791	39,750	38,079	40,911	45,407	40,333	34,255
	---	---	5,714	5,803	4,222	9,256	1,061	11,551	5,834	19,890	17,616	12,344
	0	1	8	4	8	4	2	7	3	5	3	45
None of Above	---	24,888	25,518	31,850	38,425	37,990	45,500	44,000	42,000	49,850	44,250	38,000
	---	23,150	22,443	27,800	32,500	32,800	36,000	38,000	35,517	39,890	32,500	30,572
	---	19,905	19,590	24,000	26,590	26,250	30,000	32,000	29,500	31,635	25,750	24,440
	---	22,553	22,563	30,143	33,294	33,650	39,576	39,851	36,410	42,951	34,465	33,136
	---	2,471	4,316	21,119	9,835	10,061	15,315	13,123	12,449	16,559	11,147	14,729
	0	14	106	100	82	56	73	91	34	30	30	616
No Response	---	---	28,200	30,000	---	---	53,500	35,000	---	---	---	33,950
	---	19,500	22,700	25,000	30,500	23,500	33,600	28,500	31,500	---	---	28,100
	---	---	17,050	25,000	---	---	29,400	22,000	---	---	---	22,525
	---	19,500	22,650	26,667	30,500	23,500	39,880	28,500	31,500	---	---	29,992
	---	---	5,575	2,887	14,849	---	15,800	9,192	---	---	---	11,442
	0	1	3	3	2	1	5	2	1	0	0	18
TOTAL	---	24,250	26,000	32,725	38,000	40,000	44,500	45,000	46,000	51,000	45,000	39,000
	---	23,000	23,000	28,230	33,000	34,000	36,360	38,000	38,600	40,000	33,000	31,000
	---	19,900	20,000	24,435	27,085	28,000	30,000	32,000	31,000	33,000	25,000	24,900
	---	22,174	23,154	31,213	34,538	35,611	40,930	39,730	39,976	44,117	36,710	34,052
	---	2,574	4,556	24,405	17,298	11,642	22,330	12,018	13,093	15,995	17,587	17,731
	0	37	230	238	184	121	147	187	71	71	51	1,337

TABLE-2.3.3

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC Ph.D. CHEMISTS
by ACS LOCAL SECTION and YEARS SINCE BS
1981 Survey of ACS Members

LOCAL SECTION	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
So California	---	---	34,000	40,750	50,000	43,000	54,750	51,750	40,950	45,650	39,875	44,000	- 75th %-ile
	---	---	30,600	35,000	42,250	38,500	50,046	50,000	38,000	37,000	34,500	37,000	- Median
	---	---	29,320	31,850	36,000	34,325	37,000	40,000	33,100	33,000	25,875	32,100	- 25th %-ile
	---	---	30,298	37,110	43,325	38,650	49,136	56,726	37,220	38,860	33,667	40,019	- Mean
	---	---	4,221	11,563	10,114	8,434	12,967	35,499	4,225	7,684	7,494	14,806	- Std. Dev.
	0	0	15	21	20	18	8	9	5	5	6	107	- Count
California	---	---	34,500	36,750	37,250	53,250	63,000	60,000	43,850	70,000	66,000	49,900	
	---	---	30,250	32,800	32,700	41,329	53,200	49,600	41,000	45,000	35,000	38,290	
	---	---	29,150	30,000	27,000	34,904	38,000	46,000	36,000	40,000	29,000	32,000	
	---	---	31,520	34,270	32,125	45,049	57,970	53,234	40,140	53,643	45,000	42,702	
	---	---	4,190	6,782	5,659	11,785	30,272	11,182	4,919	25,167	19,764	16,356	
	0	0	10	28	17	18	11	23	5	7	5	124	
Chicago	---	---	32,750	33,225	41,600	46,750	45,000	71,110	70,750	53,400	51,000	48,000	
	---	---	31,350	31,560	36,000	39,600	40,000	55,000	65,500	50,000	33,000	36,200	
	---	---	27,400	26,500	30,156	33,400	36,300	41,700	49,150	34,000	25,500	31,680	
	---	---	30,338	31,081	36,589	39,617	41,524	62,002	59,609	48,958	37,618	41,170	
	---	---	3,205	4,567	8,612	8,507	6,453	28,290	16,556	13,636	22,627	16,304	
	0	0	8	22	39	13	16	13	10	11	11	143	
Delaware	---	---	31,680	44,400	45,000	53,000	56,850	60,275	58,500	70,580	53,580	51,175	
	---	---	31,000	39,680	40,000	45,480	47,375	51,350	49,000	47,000	41,880	44,760	
	---	---	29,000	36,250	37,560	43,375	44,250	44,250	41,400	44,220	37,110	38,000	
	---	---	30,765	40,137	41,737	48,247	53,875	60,415	49,600	58,477	44,190	48,438	
	---	---	2,038	5,781	7,719	9,239	22,769	31,650	10,029	22,909	8,968	20,039	
	0	0	15	18	27	14	18	26	13	19	4	154	
New York	---	---	33,500	35,500	41,250	49,000	48,000	59,500	55,000	63,000	51,500	47,413	
	---	---	29,000	29,250	36,000	42,250	40,000	43,368	50,000	50,000	35,280	38,000	
	---	---	23,400	25,590	30,000	35,000	38,600	34,000	35,000	40,250	26,200	29,900	
	---	---	28,379	30,924	35,752	44,275	43,019	46,570	44,591	51,625	42,053	39,495	
	---	---	6,800	8,381	8,691	16,061	10,733	15,136	13,767	11,952	24,953	14,267	
	0	0	13	28	33	31	14	19	11	8	9	166	
No Jersey	---	---	31,950	38,750	45,000	48,000	64,000	62,000	63,000	60,000	47,000	50,000	
	---	31,000	30,500	33,150	39,750	44,000	46,100	46,000	50,000	54,000	39,700	40,000	
	---	---	27,700	29,000	34,625	35,000	38,000	40,000	40,500	40,320	31,975	33,000	
	---	31,000	31,116	34,324	41,306	42,682	51,618	51,791	54,490	52,054	39,269	43,131	
	---	---	5,520	8,036	10,124	10,299	20,333	15,421	18,824	11,393	9,380	14,353	
	0	1	25	52	52	41	27	35	19	23	18	293	
No Eastern	---	---	32,950	35,000	40,400	45,332	47,025	55,200	46,222	65,225	51,250	45,222	
	---	---	29,500	32,000	35,100	41,000	41,250	48,000	43,000	65,000	44,000	38,000	
	---	---	25,950	30,000	30,600	32,000	32,450	43,000	38,000	38,000	37,000	31,350	
	---	---	28,640	32,834	36,964	40,627	42,064	49,178	50,971	54,290	45,433	39,924	
	---	---	5,356	7,814	7,614	14,470	10,739	8,161	27,990	17,122	11,688	13,301	
	0	0	12	24	37	24	18	15	9	5	9	153	
Philadelphia	---	---	31,031	36,000	42,600	50,000	53,625	54,000	61,475	60,500	57,250	49,000	
	---	---	28,500	34,700	35,000	45,000	43,700	47,500	55,000	43,000	44,000	38,500	
	---	---	27,500	31,572	32,500	37,000	32,500	40,000	43,700	39,000	36,850	32,500	
	---	---	29,173	33,464	37,383	47,013	44,650	46,387	52,328	47,000	48,280	41,776	
	---	---	2,688	4,822	7,651	17,511	12,579	10,701	11,484	12,530	14,464	12,718	
	0	0	9	31	19	19	21	19	9	9	10	146	
Pittsburgh	---	---	32,685	40,150	32,000	63,250	69,000	52,668	54,750	175,000	---	49,500	
	---	---	29,700	33,072	30,000	40,800	60,000	46,000	48,750	49,500	46,000	37,000	
	---	---	28,400	27,000	24,500	28,190	52,000	43,394	42,000	30,000	---	30,000	
	---	---	30,255	33,643	28,578	46,920	60,333	47,088	48,417	84,833	46,000	42,187	
	---	---	3,203	8,783	6,124	28,392	8,505	5,707	8,127	78,693	---	23,825	
	0	0	8	8	9	6	3	7	6	3	1	51	
SE Texas	---	---	36,900	48,500	45,000	71,050	57,500	65,928	---	64,500	84,000	53,000	
	---	---	31,850	36,048	41,000	40,050	49,000	52,000	45,500	48,000	70,000	43,000	
	---	---	28,725	32,850	36,000	36,210	37,440	43,000	---	47,000	27,000	36,000	
	---	---	32,225	41,105	41,489	51,968	48,489	52,358	45,500	53,167	60,333	46,019	
	---	---	4,755	10,464	6,948	22,521	10,022	16,524	7,778	9,828	29,704	15,183	
	0	0	8	9	15	10	7	13	2	3	3	70	
Washington DC	---	---	32,024	36,650	41,914	45,750	50,000	50,075	50,000	50,500	46,000	49,850	
	---	---	28,800	32,048	37,836	41,000	45,000	48,484	50,000	50,000	37,000	40,800	
	---	---	25,750	28,798	33,212	35,480	38,000	44,336	45,000	42,000	30,000	34,138	
	---	---	28,870	33,444	38,439	40,524	44,031	46,580	47,474	44,864	38,200	40,631	
	---	---	3,259	6,331	6,825	7,873	6,011	4,686	3,871	11,503	10,157	8,602	
	0	0	5	17	36	20	19	16	11	15	15	154	
None of Above	---	---	32,000	36,000	41,400	47,500	49,600	50,766	55,000	55,000	42,650	45,000	
	---	24,840	30,000	32,700	36,000	41,000	42,250	46,000	46,000	42,720	35,000	37,160	
	---	---	28,100	29,000	30,780	35,640	35,000	38,500	39,180	36,534	29,700	31,148	
	---	24,840	30,837	33,254	36,748	42,443	44,132	48,788	49,555	48,252	40,286	40,228	
	---	---	13,562	6,505	9,838	10,317	15,902	18,628	19,628	23,243	19,958	15,235	
	0	1	123	246	279	203	144	166	93	69	49	1,373	
No Response	---	---	32,050	39,000	36,500	51,600	58,500	58,750	69,000	---	---	51,500	
	---	---	27,420	30,500	31,300	40,000	50,000	51,750	53,000	52,000	35,650	38,600	
	---	---	25,625	23,000	27,150	36,024	39,625	43,000	50,000	---	---	30,500	
	---	---	28,668	30,436	31,650	43,050	49,375	52,083	57,333	52,000	35,650	39,843	
	---	---	5,322	7,690	4,949	11,681	9,776	10,404	10,214	---	---	13,072	
	0	0	8	7	4	5	4	6	3	1	1	39	
TOTAL	---	31,000	32,000	37,000	42,000	48,000	50,425	55,000	55,000	57,250	46,348	47,000	
	---	27,920	30,000	33,000	36,800	41,850	43,640	48,000	47,500	47,534	37,000	38,500	
	---	24,840	28,000	29,500	31,572	35,350	37,000	40,000	39,850	39,000	30,000	32,000	
	---	27,920	30,476	33,703	37,304	42,964	46,017	50,668	49,834	50,519	41,165	41,285	
	---	4,356	9,907	7,278	9,332	12,156	15,976	18,893	17,383	21,181	17,246	15,275	
	0	2	259	511	587	422	310	367	196	178	141	2,973	

TABLE-3.1.0

SALARIES of FULL-TIME EMPLOYED INDUSTRIAL CHEMISTS
by HIGHEST DEGREE and YEARS SINCE BS
1981 Survey of ACS Members

HIGHEST DEGREE	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Bachelors	24,580	25,050	30,000	39,929	44,950	48,000	50,000	55,600	63,700	60,000	---	46,500 - 90th %-ile
	21,293	22,000	25,850	33,000	36,875	39,600	41,700	45,000	49,625	47,425	32,280	36,000 - 75th %-ile
	18,000	19,855	22,500	28,000	31,380	32,232	35,000	36,300	38,500	38,250	25,000	28,000 - Median
	16,000	17,242	19,775	23,630	25,500	28,700	29,000	30,000	29,000	31,825	23,774	22,000 - 25th %-ile
	13,900	15,460	17,000	21,000	22,010	24,000	24,696	25,000	24,060	25,184	---	18,178 - 10th %-ile
	19,250	19,990	23,134	29,033	32,810	34,835	37,122	40,888	42,594	41,097	27,742	31,097 - Mean
	4,755	4,456	5,662	7,412	10,687	10,499	12,515	22,202	19,902	14,331	6,176	14,810 - Std. Dev.
	38	228	322	205	160	143	135	243	102	82	7	1,665 - Count
Masters	---	25,000	29,327	38,900	45,828	50,000	60,000	55,200	61,880	67,000	55,600	50,000
	---	24,500	26,643	33,200	38,625	42,375	45,925	45,000	49,050	53,000	48,375	40,000
	---	23,000	23,500	29,000	33,108	35,000	38,750	38,000	39,000	41,000	35,500	31,770
	---	20,000	21,000	25,000	27,000	30,285	30,000	33,000	31,250	32,000	28,325	25,500
	---	18,550	19,000	21,000	23,000	25,530	27,000	29,900	23,800	28,720	20,730	21,400
	---	22,315	23,944	32,734	35,150	37,121	42,897	40,729	40,762	45,136	37,270	35,079
	---	2,608	4,208	26,861	18,549	11,188	24,064	12,290	13,959	16,920	12,124	18,762
	0	34	182	191	154	92	118	147	57	55	36	1,066
Doctorate	---	---	34,520	42,200	49,940	60,000	65,600	70,000	71,400	75,000	67,100	60,000
	---	---	32,000	37,125	43,000	48,877	53,000	59,500	60,000	60,000	49,125	48,000
	---	27,920	30,000	33,500	38,000	42,450	45,000	48,000	48,000	49,750	37,620	39,000
	---	---	28,500	30,000	33,000	36,875	38,000	40,000	40,000	40,000	30,195	32,188
	---	---	26,090	26,470	29,000	32,000	32,400	35,000	35,000	35,000	26,950	28,730
	---	27,920	30,986	34,361	39,003	44,183	47,870	52,184	51,936	53,366	42,480	42,392
	---	4,356	10,047	7,225	9,176	12,289	17,099	20,465	18,701	23,278	18,639	16,114
	0	2	238	426	452	338	243	291	152	132	108	2,382
No Response	---	---	---	---	---	---	---	---	---	---	68,400	68,400
	---	---	---	---	---	---	---	---	---	---	48,000	48,000
	---	---	---	---	---	---	---	---	---	---	36,000	36,000
	---	---	---	---	---	---	---	---	---	---	31,000	31,000
	---	---	---	---	---	---	---	---	---	---	18,660	18,660
	---	---	---	---	---	---	---	---	---	---	38,852	38,852
	---	---	---	---	---	---	---	---	---	---	17,757	17,757
	0	0	0	0	0	0	0	0	0	0	15	15
TOTAL	24,580	25,000	32,470	41,000	48,000	56,000	60,000	65,000	67,000	70,000	59,300	54,008
	21,293	22,159	29,910	36,000	41,910	46,387	49,000	50,378	55,000	55,000	47,250	43,200
	18,000	20,000	25,400	31,010	35,660	39,500	40,000	42,000	44,000	44,000	36,125	34,200
	16,000	17,700	21,400	27,000	30,000	32,000	33,000	34,175	35,000	35,650	29,365	27,000
	13,900	15,600	18,672	23,008	25,000	27,840	28,000	29,420	28,000	29,200	24,700	21,418
	19,250	20,350	25,851	32,654	36,938	40,716	43,762	45,680	46,824	47,943	40,401	37,194
	4,755	4,371	7,942	14,575	12,204	12,413	18,512	20,447	18,975	20,373	17,222	17,068
	38	264	742	822	766	573	496	681	311	269	166	5,128

TABLE-3.2.1

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY
by TOTAL NUMBER OF SUBORDINATES and YEARS SINCE BS
1981 Survey of ACS Members

TOTAL SUBORDINATES	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
(1-2)	19,875	21,568	26,501	31,800	38,880	37,500	34,750	41,000	40,375	61,875	---	34,200 - 75th %-ile
	15,425	20,160	21,750	28,000	30,890	30,050	30,600	34,150	37,120	39,250	32,280	28,000 - Median
	13,338	17,400	18,620	23,550	27,000	25,000	25,608	29,150	26,750	32,750	---	21,000 - 25th %-ile
	16,213	20,400	22,339	28,257	32,050	30,936	30,486	46,351	35,448	45,298	32,280	30,087 - Mean
	3,502	4,199	5,176	6,548	6,996	7,475	6,116	47,364	8,680	15,202	---	19,177 - Std. Dev.
	4	17	34	17	12	15	12	17	8	10	1	147 - Count
(3-7)	---	20,875	27,550	34,050	37,118	42,000	41,875	40,500	47,000	40,500	---	36,000
	---	19,482	24,000	29,050	32,000	32,500	32,235	35,050	35,000	35,000	30,570	30,000
	---	18,450	20,575	24,000	25,250	28,000	27,300	30,000	26,500	31,150	---	24,000
	---	20,650	24,483	29,512	33,032	35,162	36,013	36,625	35,344	38,475	30,570	31,247
	---	4,332	5,495	6,317	10,246	10,038	12,595	8,602	11,405	13,542	12,685	10,152
	0	22	66	54	38	27	24	57	21	13	2	324
(8-12)	---	30,750	29,625	39,972	38,500	41,300	46,500	44,500	88,750	43,000	---	42,625
	---	20,000	25,100	33,000	35,000	30,000	41,000	39,500	46,250	34,000	---	35,000
	---	19,072	22,250	27,000	33,000	27,200	35,250	30,000	39,175	25,600	---	27,660
	---	25,398	26,287	33,231	37,113	34,908	40,826	39,800	57,700	36,342	---	36,358
	---	10,156	5,090	7,214	9,079	11,514	8,299	11,254	27,978	10,811	---	12,487
	0	9	16	19	15	13	16	37	6	11	0	142
(13-17)	---	---	35,100	38,250	39,504	60,000	50,000	51,500	52,500	---	---	49,500
	---	---	25,400	32,150	27,600	45,000	39,726	46,250	45,000	54,000	---	40,000
	---	---	20,450	28,725	25,200	33,000	35,385	42,000	36,250	---	---	32,125
	---	---	27,519	33,823	30,768	46,000	44,165	46,325	44,500	54,000	---	40,546
	---	---	7,837	7,829	7,660	13,528	18,195	7,230	8,732	8,485	---	11,970
	0	0	9	8	3	3	6	20	5	2	0	56
(18-22)	---	23,000	---	49,000	---	45,000	48,000	60,000	---	---	---	45,000
	---	22,500	17,192	45,700	23,232	38,182	41,000	43,000	43,000	25,100	---	36,000
	---	21,625	---	26,400	---	36,000	28,180	29,000	---	---	---	24,240
	---	22,375	17,192	38,057	23,232	39,469	39,060	44,000	43,000	25,100	---	34,496
	---	750	11,444	12,970	1,742	5,427	10,783	15,524	---	---	---	12,069
	0	4	2	9	2	7	4	3	1	1	0	31
(23-32)	---	---	33,000	38,000	39,500	65,000	48,000	87,000	58,875	---	---	47,400
	---	22,000	24,150	34,000	35,100	47,000	36,000	42,000	43,500	49,200	---	36,500
	---	---	20,925	33,000	34,000	37,250	35,000	34,800	32,625	---	---	34,000
	---	22,000	26,025	35,000	36,286	49,750	40,286	53,329	45,000	49,200	---	41,482
	---	---	6,611	2,646	3,605	14,841	7,761	26,570	13,802	2,546	---	15,512
	0	1	4	3	7	4	7	7	4	2	0	39
(33-47)	---	---	---	41,250	68,950	43,750	---	49,500	77,100	---	---	56,000
	---	---	41,850	32,500	48,400	40,000	33,500	42,000	62,200	62,500	---	44,000
	---	---	---	29,750	38,500	36,250	---	38,300	51,800	---	---	35,000
	---	---	41,850	34,500	51,950	40,000	33,500	43,520	63,700	62,500	---	46,441
	---	---	33,446	6,557	16,557	4,082	2,121	5,954	13,216	3,536	---	14,920
	0	0	2	4	4	4	2	5	4	2	0	27
(48-67)	---	---	---	---	---	---	48,000	62,500	137,500	---	---	61,250
	---	---	---	38,000	37,000	50,800	46,000	55,000	80,000	63,000	---	49,600
	---	---	---	---	---	---	39,600	25,960	54,750	---	---	38,800
	---	---	---	38,000	37,000	50,800	44,533	47,820	90,750	63,000	---	57,627
	---	---	---	---	4,243	1,697	4,388	19,299	44,597	38,184	---	30,422
	0	0	0	1	2	2	3	3	4	2	0	17
(68-99)	---	---	---	---	---	---	---	58,000	56,000	---	---	60,000
	---	---	---	64,000	---	58,250	49,000	52,000	50,000	55,850	---	52,000
	---	---	---	---	---	---	----	50,463	48,000	---	---	49,475
	---	---	---	64,000	---	58,250	49,000	53,488	51,333	55,850	---	54,550
	---	---	---	---	---	34,295	---	4,448	4,163	5,869	---	11,147
	0	0	0	1	0	2	1	4	3	2	0	13
(>=100)	---	---	---	---	---	60,000	90,000	103,500	100,000	---	---	100,000
	35,000	---	---	---	49,000	60,000	60,000	90,000	66,000	26,000	---	60,000
	---	---	---	---	---	41,000	47,000	49,750	48,000	---	---	47,000
	35,000	---	---	---	49,000	53,667	65,714	89,130	71,333	26,000	---	69,826
	---	---	---	---	1,414	10,970	21,211	50,108	26,407	---	---	36,987
	1	0	0	0	2	3	7	10	3	1	0	27
TOTAL	28,000	22,000	27,500	35,875	39,340	44,000	46,250	48,000	53,000	53,125	39,540	41,800
	16,500	20,000	23,500	30,000	34,000	36,950	38,500	39,500	43,000	40,000	32,280	32,500
	13,675	18,550	20,350	26,275	27,300	29,425	30,188	32,000	32,700	31,225	21,600	25,100
	19,970	21,532	24,556	31,469	34,931	37,745	40,198	44,456	47,514	42,894	31,140	35,839
	8,933	5,683	6,808	8,103	10,251	12,024	14,333	24,740	23,156	15,390	9,024	17,409
	8	53	133	114	85	80	82	163	59	46	3	823

TABLE-3.2.2

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS IN PRIVATE INDUSTRY
by TOTAL NUMBER OF SUBORDINATES and YEARS SINCE BS
1981 Survey of ACS Members

TOTAL SUBORDINATES	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
(1-2)	---	25,600	28,630	32,300	35,250	40,450	37,500	45,000	---	38,125	29,750	36,500	- 75th %-ile
	---	25,000	24,000	27,750	30,869	35,000	34,000	40,360	43,550	33,460	27,580	30,000	- Median
	---	24,500	22,000	24,000	24,250	24,750	27,500	32,600	---	27,500	26,040	25,000	- 25th %-ile
	---	25,033	24,989	28,917	30,218	33,080	33,078	39,635	43,550	32,737	27,790	31,225	- Mean
	---	551	3,376	6,039	7,617	8,072	6,050	8,140	9,122	7,758	2,017	7,864	- Std. Dev.
	0	3	13	18	14	5	9	13	2	6	4	87	- Count
(3-7)	---	24,575	27,750	33,000	41,550	39,063	47,000	50,000	42,000	54,075	50,000	40,800	
	---	23,150	25,594	29,250	35,000	34,000	40,000	39,075	38,500	36,500	41,250	33,200	
	---	20,075	22,625	25,332	28,625	31,475	30,000	33,900	31,250	30,000	33,000	27,000	
	---	22,600	25,411	29,038	34,937	35,101	40,718	41,295	36,424	41,040	40,928	34,541	
	---	2,494	3,691	5,939	8,078	6,090	11,873	9,563	7,105	12,983	11,515	9,955	
	0	4	28	42	30	20	25	30	17	10	9	215	
(8-12)	---	---	34,000	38,000	42,000	47,150	45,000	51,450	---	65,500	55,000	44,000	
	---	21,500	31,000	31,650	38,500	42,000	37,500	39,000	36,500	43,762	45,000	37,260	
	---	---	25,725	29,458	27,000	36,875	35,000	35,500	---	34,250	35,000	32,000	
	---	21,500	30,630	32,880	36,034	45,070	39,184	47,371	36,500	52,003	45,000	39,460	
	---	2,121	5,251	6,010	8,025	11,526	6,677	23,957	---	24,681	10,000	14,445	
	0	2	10	16	11	10	21	13	1	8	3	95	
(13-17)	---	---	---	48,000	50,000	46,750	48,500	48,000	---	---	---	48,900	
	---	21,000	27,712	43,800	40,400	35,600	40,000	43,100	45,000	50,400	52,500	40,400	
	---	---	---	28,000	38,000	32,550	38,850	36,000	---	---	---	34,350	
	---	21,000	27,712	39,471	41,943	38,300	42,940	42,857	45,000	50,400	52,500	40,879	
	---	---	2,421	10,204	12,003	8,064	6,864	9,208	---	849	---	9,945	
	0	1	2	7	7	4	5	7	1	2	1	37	
(18-22)	---	---	---	38,625	54,000	---	69,000	53,000	---	49,000	---	49,250	
	---	---	---	36,100	37,000	40,500	42,450	43,000	56,750	41,000	49,500	39,500	
	---	---	---	35,000	28,000	---	33,000	35,990	---	33,000	---	35,000	
	---	---	---	36,950	39,667	40,500	48,150	44,196	56,750	41,000	49,500	42,925	
	---	---	---	2,641	13,204	10,607	18,665	8,678	24,395	8,000	---	11,183	
	0	0	0	6	3	2	3	5	2	3	1	25	
(23-32)	---	---	---	---	49,500	---	65,250	51,913	---	---	---	51,150	
	---	23,700	30,000	31,250	45,000	47,050	51,800	42,000	---	---	54,000	43,800	
	---	---	---	---	33,750	---	29,050	34,250	---	---	---	33,250	
	---	23,700	30,000	31,250	42,300	47,050	48,700	43,481	---	---	54,000	42,574	
	---	---	---	8,132	8,136	4,313	19,051	8,873	---	---	5,657	11,529	
	0	1	1	2	5	2	4	9	0	0	2	26	
(33-47)	---	---	---	31,200	---	---	---	64,000	69,500	67,500	---	60,200	
	---	---	---	31,020	27,000	51,500	60,400	50,000	58,500	57,500	60,000	53,000	
	---	---	---	28,560	---	---	---	46,000	53,800	43,750	---	42,000	
	---	---	---	30,260	27,000	51,500	60,400	54,000	60,500	56,250	60,000	51,342	
	---	---	---	1,475	---	707	---	10,025	8,583	12,500	---	13,503	
	0	0	0	3	1	2	1	5	4	4	1	21	
(48-67)	---	---	---	---	69,500	---	---	65,000	---	---	---	65,000	
	---	---	---	35,000	52,000	50,000	52,250	65,000	---	100,000	---	52,000	
	---	---	---	---	42,750	---	---	35,000	---	---	---	41,125	
	---	---	---	35,000	54,750	50,000	52,250	55,000	---	100,000	---	56,125	
	---	---	---	---	14,660	---	10,960	17,321	---	---	---	18,623	
	0	0	0	1	4	1	2	3	0	1	0	12	
(68-99)	---	---	---	---	---	---	59,500	72,000	---	---	---	61,963	
	---	---	---	28,500	---	65,000	50,000	46,800	61,925	55,000	38,000	52,500	
	---	---	---	---	---	---	42,000	38,000	---	---	---	39,000	
	---	---	---	28,500	---	65,000	50,500	52,767	61,925	55,000	38,000	51,554	
	---	---	---	---	---	---	8,761	17,647	106	---	---	13,157	
	0	0	0	1	0	1	3	3	2	1	1	12	
(>=100)	---	---	---	---	---	---	180,000	65,000	80,000	---	---	80,000	
	---	---	---	33,250	56,500	72,000	100,000	52,500	60,000	65,000	---	60,000	
	---	---	---	---	---	---	45,000	31,000	60,000	---	---	40,000	
	---	---	---	33,250	56,500	72,000	106,286	49,500	66,667	65,000	---	74,158	
	---	---	---	2,475	28,991	---	64,173	17,197	11,547	---	---	46,958	
	0	0	0	2	2	1	7	3	3	1	0	19	
TOTAL	---	25,000	29,000	35,000	42,000	46,150	49,200	50,000	58,750	55,000	53,125	44,000	
	---	23,300	26,000	30,650	36,000	37,000	40,350	40,360	42,000	42,528	42,625	36,000	
	---	21,000	23,600	26,270	30,000	33,315	33,250	35,000	36,650	33,250	30,000	29,462	
	---	23,018	26,446	31,097	37,021	40,342	46,911	44,105	45,848	46,090	41,932	38,915	
	---	2,140	4,359	6,726	11,174	10,900	27,676	13,247	14,476	18,612	11,841	16,410	
	0	11	54	98	77	48	80	91	32	36	22	549	

TABLE-3.2.3

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS IN PRIVATE INDUSTRY
by TOTAL NUMBER OF SUBORDINATES and YEARS SINCE BS
1981 Survey of ACS Members

TOTAL SUBORDINATES	YEARS SINCE BS											
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
(1-2)	---	---	32,000	36,385	40,250	44,000	50,400	50,500	49,700	55,000	42,500	43,000 - 75th %-ile
	---	---	30,000	34,000	36,250	41,850	43,000	45,000	47,000	39,500	35,000	36,940 - Median
	---	---	28,600	30,000	31,875	34,750	38,000	38,000	40,000	36,000	28,000	31,650 - 25th %-ile
	---	---	30,303	33,549	37,014	40,322	44,980	45,172	46,062	41,938	36,694	38,152 - Mean
	---	---	2,898	4,952	6,607	9,069	9,657	10,964	6,966	14,275	10,925	9,448 - Std.Dev.
	0	0	42	66	46	46	31	34	13	16	19	313 - Count
(3-7)	---	---	33,250	38,640	42,150	46,588	48,850	54,500	50,375	60,000	50,500	46,000
	---	31,000	30,500	34,000	37,560	40,000	43,250	50,000	44,250	51,000	37,000	38,975
	---	---	28,050	30,000	33,250	35,425	35,050	42,500	37,700	42,500	33,925	33,000
	---	31,000	34,815	34,691	37,983	41,761	44,402	50,971	43,977	52,036	45,207	41,061
	---	---	24,322	7,508	6,999	9,208	14,086	14,369	10,766	11,489	20,544	13,497
	0	1	37	94	101	84	56	51	30	19	25	498
(8-12)	---	---	37,150	45,675	44,532	48,752	55,250	57,000	64,500	70,000	68,250	52,000
	---	---	35,640	38,500	39,000	42,000	48,250	47,000	55,000	54,000	49,500	44,000
	---	---	30,550	36,000	35,750	40,000	45,000	40,000	42,500	45,000	41,900	38,500
	---	---	34,208	41,950	40,010	45,929	48,981	51,819	54,165	57,200	54,956	46,721
	---	---	4,742	9,850	6,418	10,004	7,881	23,656	12,918	14,594	18,882	13,732
	0	0	5	22	49	36	22	23	17	15	9	198
(13-17)	---	---	---	43,008	47,000	54,250	64,000	60,000	54,750	63,000	60,500	52,750
	---	---	37,250	39,750	44,090	44,000	46,000	53,000	52,500	38,000	45,000	44,625
	---	---	---	34,875	39,850	41,500	40,000	49,250	50,250	27,700	39,000	40,000
	---	---	37,250	40,018	43,830	47,078	51,337	53,343	52,500	42,900	48,800	46,284
	---	---	---	7,466	6,347	8,200	14,040	19,161	2,380	18,153	13,161	11,621
	0	0	1	18	22	18	7	14	4	3	5	92
(18-22)	---	---	---	46,000	51,500	55,000	71,175	60,000	72,250	64,000	59,000	55,750
	---	---	---	45,000	45,900	51,000	59,000	51,360	54,500	51,500	42,450	49,850
	---	---	---	37,000	40,000	45,344	52,750	48,000	45,975	48,775	21,250	44,118
	---	---	---	44,551	46,500	52,172	60,975	53,639	57,575	54,758	40,590	50,321
	---	---	---	12,122	6,150	8,506	9,788	8,277	14,610	8,119	22,043	12,257
	0	0	0	11	6	8	4	11	4	3	5	52
(23-32)	---	---	---	52,610	55,500	53,575	57,500	58,800	74,500	71,685	---	60,000
	---	---	---	39,900	49,800	48,850	55,000	52,678	67,000	62,500	64,000	52,500
	---	---	---	31,100	42,000	45,750	48,000	49,350	47,500	48,500	---	45,000
	---	---	---	41,464	49,873	51,428	53,429	53,618	64,000	59,058	64,000	53,625
	---	---	---	11,458	11,037	7,840	6,058	8,066	14,550	16,313	5,657	11,855
	0	0	0	5	15	18	7	10	8	10	2	75
(33-47)	---	---	---	---	57,750	65,500	63,000	67,500	60,000	---	---	61,475
	---	---	---	---	53,000	50,000	60,000	54,000	59,150	50,650	54,500	55,000
	---	---	---	---	47,500	47,500	52,000	42,000	55,825	---	---	48,270
	---	---	---	---	52,700	54,058	57,873	53,969	58,325	50,650	54,500	55,092
	---	---	---	---	5,762	14,519	8,045	14,664	2,357	919	2,121	10,619
	0	0	0	0	5	11	11	9	4	2	2	44
(48-67)	---	---	---	---	61,610	60,000	68,000	78,000	100,000	---	---	69,850
	---	---	---	53,000	51,000	55,400	52,000	67,750	62,300	77,500	69,800	57,150
	---	---	---	---	49,750	51,000	50,000	58,250	11,500	---	---	51,750
	---	---	---	53,000	54,744	54,889	56,667	71,146	57,933	77,500	69,800	60,831
	---	---	---	---	8,647	4,724	9,866	17,917	44,411	3,536	---	16,625
	0	0	0	1	5	11	3	8	3	2	1	34
(68-99)	---	---	---	---	70,000	86,500	68,750	92,000	65,000	69,238	---	69,000
	---	---	---	---	54,000	62,000	64,000	64,210	63,312	67,000	33,000	62,000
	---	---	---	---	41,000	50,500	54,750	60,105	60,650	60,000	---	54,000
	---	---	---	---	56,429	67,200	62,500	72,105	62,987	65,413	33,000	62,504
	---	---	---	---	14,752	21,088	7,506	18,957	2,193	4,819	---	15,218
	0	0	0	0	7	5	4	4	3	3	1	27
(>=100)	---	---	---	---	84,500	107,500	88,500	96,100	90,000	152,500	---	98,500
	---	---	---	49,366	65,000	102,000	72,000	75,000	65,000	88,000	102,500	75,000
	---	---	---	---	47,750	50,250	67,375	67,175	53,500	72,500	---	63,750
	---	---	---	49,366	65,833	83,500	85,500	86,488	70,318	107,822	102,500	84,145
	---	---	---	7,589	22,040	30,757	31,977	33,959	29,603	49,292	38,891	34,891
	0	0	0	2	6	5	16	27	11	9	2	78
TOTAL	---	---	33,000	40,000	45,900	50,000	60,000	62,800	62,650	65,588	53,000	53,000
	---	31,000	30,300	35,200	40,000	44,000	48,000	51,000	51,000	55,000	42,450	42,500
	---	---	28,550	31,500	35,000	39,000	40,000	44,472	43,000	43,250	34,350	35,000
	---	31,000	32,578	36,382	41,285	46,110	51,928	56,956	53,204	58,831	46,672	46,266
	---	---	16,245	8,314	9,970	12,683	18,907	23,102	17,503	27,206	20,621	18,225
	0	1	85	219	262	242	161	191	97	82	71	1,411

TABLE-3.3.1

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY
by SUBORDINATES (PROFESSIONALS + TECHNICIANS) and YEARS SINCE BS
1981 Survey of ACS Members

SUBORDINATES (Profs + Techs)	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
None	---	---	21,000	---	32,500	---	33,750	40,250	---	75,000	---	39,000	= 75th %-tile
	---	32,000	18,500	18,000	24,464	24,000	27,800	34,500	27,000	48,000	---	28,000	= Median
	---	---	18,300	---	22,000	---	25,300	29,400	---	26,000	---	22,000	= 25th %-tile
	---	32,000	19,267	18,000	26,693	24,000	28,950	35,200	27,000	49,667	---	30,547	= Mean
	---	---	1,504	---	5,499	---	4,582	8,546	12,728	24,542	---	12,395	= Std. Dev.
	0	1	3	1	5	1	4	6	2	3	0	26	= Count
(1-2)	19,875	21,602	26,430	34,050	39,180	38,250	35,000	42,000	48,000	48,750	---	36,030	
	15,425	20,080	22,000	29,000	35,000	30,125	31,500	33,490	39,000	37,940	52,280	28,400	
	13,338	17,025	19,000	25,425	27,000	26,625	25,000	29,955	30,125	31,250	---	21,789	
	16,213	19,590	22,327	29,491	34,185	32,458	31,432	44,553	46,673	41,291	32,280	31,416	
	3,502	3,116	4,929	6,774	7,871	8,305	7,701	40,622	33,784	14,758	---	19,985	
	4	20	39	24	15	18	15	24	12	14	1	186	
(3-7)	---	21,625	28,394	34,250	34,650	43,500	47,000	41,790	46,000	43,875	---	38,000	
	---	19,775	24,000	29,000	30,500	35,000	41,000	36,120	35,000	34,500	30,570	30,200	
	---	18,740	21,000	24,500	25,350	29,625	30,250	30,135	28,000	31,225	---	24,400	
	---	21,115	25,454	29,667	32,372	36,078	40,366	38,244	36,248	37,977	30,570	32,346	
	---	4,258	7,402	6,805	9,941	9,900	12,080	11,951	10,755	10,887	12,685	10,987	
	0	20	65	57	37	28	27	60	19	14	2	329	
(8-12)	---	30,750	32,100	40,880	42,500	41,000	48,500	48,000	81,250	42,250	---	44,000	
	35,000	20,000	26,220	33,000	37,000	33,000	41,500	43,000	51,500	39,500	---	37,000	
	---	19,072	22,650	28,590	34,000	28,000	35,750	32,000	44,500	26,700	---	29,550	
	35,000	25,398	27,829	34,717	39,047	34,387	43,230	40,221	59,420	36,158	---	37,989	
	---	10,156	6,412	7,960	8,703	10,231	13,068	9,039	21,489	10,348	---	13,132	
	1	9	13	17	15	15	14	31	10	8	0	133	
(13-17)	---	---	32,700	36,500	---	60,000	39,726	54,000	53,750	---	---	48,750	
	---	22,000	23,000	32,100	27,600	40,000	38,000	45,000	45,000	---	---	40,000	
	---	---	18,900	29,150	---	37,500	30,770	42,000	34,375	---	---	32,050	
	---	22,000	26,086	32,680	27,600	45,833	35,798	49,289	44,375	---	---	40,580	
	---	---	7,357	4,483	---	12,332	5,175	15,989	10,078	---	---	14,859	
	0	1	7	5	1	3	5	19	4	0	0	45	
(18-22)	---	---	---	47,725	---	51,250	41,000	60,000	---	---	---	46,900	
	---	22,250	17,192	44,850	39,500	40,300	36,000	51,500	---	70,500	---	39,800	
	---	---	---	36,000	---	37,637	29,620	32,500	---	---	---	31,250	
	---	22,250	17,192	42,333	39,500	44,964	35,448	48,000	---	70,500	---	41,157	
	---	1,061	11,444	7,129	---	12,630	6,888	14,989	---	27,577	---	15,919	
	0	2	2	6	1	6	5	4	0	2	0	28	
(23-32)	---	---	33,000	---	50,800	55,000	72,000	68,000	55,500	---	---	50,000	
	---	---	24,150	33,500	35,100	49,600	47,000	47,000	46,500	56,200	---	40,500	
	---	---	20,925	---	34,000	39,500	37,500	35,650	35,250	---	---	34,800	
	---	---	26,025	33,500	42,614	47,720	53,200	50,860	45,600	56,200	---	44,820	
	---	---	6,611	707	15,621	9,154	21,788	21,146	12,028	12,445	---	16,173	
	0	0	4	2	7	5	5	5	5	2	0	35	
(33-47)	---	---	---	---	50,000	---	---	52,000	68,400	---	---	60,009	
	---	---	---	48,000	40,000	45,000	32,000	45,500	60,000	60,000	---	50,000	
	---	---	---	---	36,000	---	---	37,950	50,400	---	---	37,600	
	---	---	---	48,000	42,000	45,000	32,000	45,150	59,600	60,000	---	47,893	
	---	---	---	22,627	7,211	---	---	7,950	9,007	---	---	11,711	
	0	0	0	2	3	1	1	4	3	1	0	15	
(48-67)	---	---	---	---	---	---	---	---	---	---	---	82,500	
	---	---	---	---	---	67,250	43,800	53,500	100,000	---	---	52,000	
	---	---	---	---	---	---	---	---	---	---	---	48,000	
	---	---	---	---	---	67,250	43,800	53,500	100,000	---	---	61,300	
	---	---	---	---	---	21,567	5,940	2,121	---	---	---	21,632	
	0	0	0	0	0	2	2	2	1	0	0	7	
(68-99)	---	---	---	---	---	---	100,000	60,000	---	---	---	61,500	
	---	---	---	---	---	---	63,000	52,000	56,000	55,850	---	56,000	
	---	---	---	---	---	---	49,000	49,950	---	---	---	50,825	
	---	---	---	---	---	---	70,667	53,983	56,000	55,850	---	60,183	
	---	---	---	---	---	---	26,350	5,310	---	5,869	---	15,731	
	0	0	0	0	0	0	3	3	1	2	0	9	
(>=100)	---	---	---	---	---	---	---	156,000	---	---	---	100,500	
	---	---	---	---	48,000	60,000	60,000	100,000	83,000	---	---	90,000	
	---	---	---	---	---	---	---	90,000	---	---	---	60,000	
	---	---	---	---	48,000	60,000	60,000	118,400	83,000	---	---	92,600	
	---	---	---	---	---	---	---	51,988	24,042	---	---	45,967	
	0	0	0	0	1	1	1	5	2	0	0	10	
TOTAL	28,000	22,000	27,500	35,875	39,340	44,000	46,250	48,000	53,000	53,125	39,540	41,800	
	16,500	20,000	23,500	30,000	34,000	36,950	38,500	39,500	43,000	40,000	32,280	32,500	
	13,675	18,550	20,350	26,275	27,300	29,425	30,188	32,000	32,700	31,225	21,600	25,100	
	19,970	21,532	24,556	31,469	34,931	37,745	40,198	44,456	47,514	42,894	31,140	35,839	
	8,933	5,683	6,808	8,103	10,251	12,024	14,333	24,740	23,156	15,390	9,024	17,409	
	5	53	133	114	85	80	82	163	59	46	3	823	

TABLE-3.3.2

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS IN PRIVATE INDUSTRY
by SUBORDINATES (PROFESSIONALS + TECHNICIANS) and YEARS SINCE BS
1981 Survey of ACS Members

SUBORDINATES (Profs + Techs)	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
None	---	---	---	---	---	---	---	---	---	---	---	55,250 - 75th %-ile
	---	23,700	23,800	25,300	---	35,000	60,000	43,000	---	44,824	55,000	35,000 - Median
	---	---	---	---	---	---	---	---	---	---	---	24,925 - 25th %-ile
	---	23,700	23,800	25,300	---	35,000	60,000	43,000	---	44,824	55,000	38,862 - Mean
	---	---	---	---	---	2,828	---	18,385	---	---	---	14,117 - Std. Dev.
	0	1	1	1	0	2	1	2	0	1	1	10 - Count
(1-2)	---	25,600	28,250	31,750	35,500	44,400	37,500	42,750	50,000	36,275	43,500	36,000
	---	25,000	25,600	27,000	30,738	36,700	34,000	37,000	37,100	33,160	29,000	30,150
	---	24,500	22,250	24,250	25,500	25,125	27,500	33,750	34,000	30,000	26,080	25,575
	---	25,033	25,211	28,625	30,562	35,917	33,078	38,292	40,367	32,678	33,632	31,593
	---	551	3,128	5,792	7,444	10,020	6,050	7,221	8,485	6,676	13,179	8,006
	0	3	17	20	17	6	9	18	3	8	5	106
(3-7)	---	23,725	28,400	33,090	42,000	40,000	45,195	50,000	42,000	60,975	47,500	41,000
	---	23,000	25,594	29,875	35,000	35,000	40,000	39,900	39,250	39,678	40,625	34,000
	---	19,775	22,750	26,393	32,858	32,000	30,750	34,000	31,125	31,305	34,500	28,500
	---	22,233	25,684	29,977	35,718	37,087	39,740	41,827	36,575	45,040	40,935	35,379
	---	2,226	3,949	6,580	8,124	10,070	10,105	10,024	7,310	15,180	11,425	10,434
	0	6	26	44	29	23	34	31	16	10	10	229
(8-12)	---	---	36,000	38,000	44,664	46,200	46,875	49,500	---	88,000	52,500	44,150
	---	21,000	32,100	32,700	38,500	44,000	38,850	38,000	36,500	46,850	45,000	37,750
	---	---	26,100	29,458	31,125	37,000	34,250	34,745	---	35,500	35,000	32,150
	---	21,000	31,563	33,336	40,277	42,814	39,853	45,629	36,500	57,150	44,167	40,587
	---	---	5,267	6,040	13,860	5,103	7,404	22,785	---	28,875	8,780	15,577
	0	1	8	16	14	7	18	14	1	8	3	90
(13-17)	---	---	---	46,200	45,200	50,000	55,000	53,500	68,750	---	---	48,900
	---	---	27,712	38,500	38,000	42,100	39,000	43,900	49,000	45,400	---	41,000
	---	---	---	28,875	24,500	32,550	38,700	39,000	40,875	---	---	34,600
	---	---	27,712	37,538	35,480	41,550	44,233	46,333	52,875	45,400	---	41,928
	---	---	2,421	8,857	11,258	9,798	9,325	9,681	15,135	6,223	---	11,131
	0	0	2	8	5	4	3	9	4	2	0	37
(18-22)	---	---	---	37,500	54,000	---	69,000	---	---	---	---	50,625
	---	---	---	37,000	51,000	46,000	42,450	47,500	---	41,000	49,500	43,500
	---	---	---	36,200	37,000	---	33,000	---	---	---	---	37,000
	---	---	---	36,900	47,333	46,000	48,150	47,500	---	41,000	49,500	44,728
	---	---	---	656	9,074	2,828	18,665	6,364	---	11,314	---	9,477
	0	0	0	3	3	2	3	2	0	2	1	16
(23-32)	---	---	---	31,200	47,250	---	67,000	58,000	---	---	---	58,250
	---	---	---	31,020	40,500	65,000	60,000	51,913	55,000	---	54,000	49,000
	---	---	---	25,500	35,250	---	43,600	42,750	---	---	---	35,750
	---	---	---	29,240	41,000	65,000	56,867	50,916	55,000	---	54,000	48,075
	---	---	---	3,240	6,481	---	12,011	10,883	---	---	5,657	12,463
	0	0	0	3	4	1	3	8	1	0	2	22
(33-47)	---	---	---	---	53,000	---	---	65,000	---	70,000	---	61,200
	---	---	---	31,780	40,000	51,500	60,200	50,000	67,000	60,000	---	53,000
	---	---	---	---	27,000	---	---	48,000	---	55,000	---	44,000
	---	---	---	31,780	40,000	51,500	60,200	54,333	67,000	61,667	---	52,292
	---	---	---	4,554	13,000	707	283	9,292	7,071	7,638	---	13,296
	0	0	0	2	3	2	2	3	2	3	0	17
(48-67)	---	---	---	---	---	---	---	---	---	---	---	54,375
	---	---	---	35,000	51,000	---	---	52,500	---	55,000	---	51,750
	---	---	---	---	---	---	---	---	---	---	---	39,000
	---	---	---	35,000	51,000	---	---	52,500	---	55,000	---	48,375
	---	---	---	---	---	---	---	---	---	---	---	9,068
	0	0	0	1	1	0	0	1	0	1	0	4
(68-99)	---	---	---	---	---	---	---	---	---	---	---	73,250
	---	---	---	---	77,000	---	59,500	68,500	61,925	---	---	63,500
	---	---	---	---	---	---	---	---	---	---	---	61,263
	---	---	---	---	77,000	---	59,500	68,500	61,925	---	---	66,225
	---	---	---	---	---	---	---	4,950	106	---	---	6,829
	0	0	0	0	1	0	1	2	2	0	0	6
(>=100)	---	---	---	---	---	---	185,000	---	80,000	---	---	114,250
	---	---	---	---	---	72,000	109,500	31,000	60,000	65,000	---	68,500
	---	---	---	---	---	---	55,000	---	60,000	---	---	60,000
	---	---	---	---	---	72,000	116,500	31,000	66,667	65,000	---	88,917
	---	---	---	---	---	---	63,761	---	11,547	---	---	52,964
	0	0	0	0	0	1	6	1	3	1	0	12
TOTAL	---	25,000	29,000	35,000	42,000	46,150	49,200	50,000	58,750	55,000	53,125	44,000
	---	23,300	26,000	30,650	36,000	37,000	40,350	40,360	42,000	42,528	42,625	36,000
	---	21,000	23,600	26,270	30,000	33,315	33,250	35,000	36,650	33,250	30,000	29,462
	---	23,018	26,446	31,097	37,021	40,342	46,911	44,105	45,848	46,990	41,932	38,913
	---	2,140	4,359	6,726	11,174	10,900	27,676	13,247	14,476	18,612	11,841	16,410
	0	11	54	98	77	48	80	91	32	36	22	549

TABLE-3.3.3

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS IN PRIVATE INDUSTRY
by SUBORDINATES (PROFESSIONAL + TECHNICIANS) and YEARS SINCE BS
1981 Survey of ACS Members

SUBORDINATES (Profs + Techs)	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
None	---	---	---	---	---	46,374	---	---	---	---	---	45,687	= 75th %-tile
	---	---	29,750	---	33,000	36,000	40,360	---	45,000	---	47,000	36,000	= Median
	---	---	---	---	---	30,000	---	---	---	---	---	30,500	= 25th %-tile
	---	---	29,750	---	33,000	37,458	40,360	---	45,000	---	47,000	37,470	= Mean
	---	---	1,768	---	---	8,284	---	---	---	---	---	7,377	= Std. Dev.
	0	0	2	0	1	3	1	0	1	0	1	9	= Count
(1-2)	---	---	32,000	36,570	40,750	44,000	50,400	51,500	49,550	56,500	40,200	43,000	
	---	31,000	30,000	33,509	36,250	41,700	43,000	45,000	46,500	40,000	35,000	36,970	
	---	---	28,605	29,700	31,125	34,500	38,000	38,000	39,600	36,000	28,000	31,350	
	---	31,000	30,330	33,513	36,774	40,149	44,968	45,051	45,486	43,177	36,246	38,171	
	---	---	2,955	6,236	7,315	8,055	9,947	11,007	7,031	14,736	10,650	9,728	
	0	1	40	73	52	49	35	36	14	17	19	336	
(3-7)	---	---	33,125	39,090	42,400	46,588	50,000	54,000	50,750	58,500	49,250	46,650	
	---	---	30,400	34,000	38,000	41,100	43,750	48,500	44,500	51,000	36,500	39,000	
	---	---	27,725	30,938	33,750	35,655	35,150	42,000	37,400	40,000	33,063	33,500	
	---	---	34,586	35,268	38,497	42,147	44,778	52,119	44,270	49,290	43,845	41,497	
	---	---	24,033	7,689	6,831	9,166	14,133	19,453	10,913	12,756	21,558	14,374	
	0	0	38	90	101	80	54	55	29	22	26	495	
(8-12)	---	---	37,875	45,000	44,532	50,000	53,750	57,000	65,250	72,000	76,125	52,375	
	---	---	35,670	39,000	39,500	42,000	48,250	46,000	55,100	55,000	50,750	44,000	
	---	---	35,160	36,000	36,000	40,000	45,000	40,020	42,250	45,000	42,000	38,950	
	---	---	36,235	41,116	40,199	46,577	48,891	48,017	54,581	58,800	56,475	46,662	
	---	---	1,608	7,687	6,308	10,136	7,820	10,457	13,223	15,184	19,588	11,670	
	0	0	4	23	45	39	22	20	16	15	8	192	
(13-17)	---	---	---	42,675	46,850	54,500	66,000	60,000	55,000	63,000	55,750	53,875	
	---	---	37,250	39,500	44,090	45,000	53,200	53,250	54,000	51,500	44,000	45,000	
	---	---	---	34,750	39,850	41,500	42,750	48,225	50,500	38,000	34,500	40,000	
	---	---	37,250	39,562	43,821	47,200	54,722	54,425	53,000	50,833	46,167	47,230	
	---	---	---	7,338	6,342	7,907	12,970	18,733	2,345	12,513	13,423	11,900	
	0	0	1	17	22	17	9	16	5	3	6	96	
(18-22)	---	---	---	50,805	52,500	56,800	71,175	66,000	99,000	64,000	60,500	56,800	
	---	---	---	45,300	45,000	54,000	59,000	51,360	54,000	50,000	49,225	50,220	
	---	---	---	34,000	42,500	45,000	52,750	49,700	44,150	48,775	38,363	45,000	
	---	---	---	44,738	47,000	53,257	60,975	55,132	68,060	54,258	49,363	52,854	
	---	---	---	13,192	5,701	8,925	9,788	8,508	32,168	8,459	11,610	14,639	
	0	0	0	12	5	7	4	11	5	3	4	51	
(23-32)	---	---	---	55,000	57,750	52,250	61,500	57,700	74,000	72,790	68,000	61,500	
	---	---	---	53,000	49,800	48,700	55,000	50,355	64,000	65,000	60,000	53,250	
	---	---	---	39,900	42,000	45,500	50,500	46,000	54,250	50,650	56,000	48,000	
	---	---	---	49,300	49,854	51,112	55,889	51,306	64,500	62,431	61,333	54,945	
	---	---	---	8,202	11,745	7,962	7,853	6,985	12,475	12,127	6,110	10,904	
	0	0	0	3	13	17	9	9	9	9	3	72	
(33-47)	---	---	---	---	56,375	65,500	64,000	74,290	64,156	---	---	65,000	
	---	---	---	---	51,500	50,000	60,000	63,500	60,000	80,000	53,000	58,500	
	---	---	---	---	43,250	47,500	51,000	55,125	56,650	---	---	50,000	
	---	---	---	---	50,250	54,025	59,011	67,778	60,322	80,000	53,000	58,627	
	---	---	---	---	7,910	14,504	9,110	19,270	3,979	---	---	13,758	
	0	0	0	0	6	11	9	8	5	1	1	41	
(48-67)	---	---	---	---	70,000	60,000	---	76,250	97,500	---	---	70,000	
	---	---	---	44,000	52,110	55,400	52,000	67,750	76,150	---	69,800	56,500	
	---	---	---	---	49,875	51,000	---	55,917	24,200	---	---	51,000	
	---	---	---	44,000	57,287	55,980	52,000	66,695	65,950	---	69,800	59,642	
	---	---	---	---	9,930	7,299	---	10,479	39,648	---	---	15,904	
	0	0	0	1	6	11	1	6	4	0	1	30	
(68-99)	---	---	---	---	71,000	90,500	---	78,750	65,000	69,238	---	69,119	
	---	---	---	---	54,000	59,500	68,500	65,500	64,000	67,000	---	64,000	
	---	---	---	---	45,500	47,625	---	60,105	60,650	60,000	---	58,500	
	---	---	---	---	57,400	65,875	68,500	69,490	63,217	65,413	---	65,172	
	---	---	---	---	13,939	23,911	707	15,529	2,278	4,819	---	14,031	
	0	0	0	0	5	4	2	8	3	3	0	25	
(>=100)	---	---	---	---	84,500	108,750	90,000	100,000	86,750	152,500	---	100,375	
	---	---	---	---	65,000	103,500	72,000	76,000	65,500	88,000	102,500	76,000	
	---	---	---	---	47,750	67,500	66,500	68,094	39,750	72,500	---	66,125	
	---	---	---	---	65,833	93,250	86,200	90,576	63,500	107,822	102,500	87,657	
	---	---	---	---	22,040	25,052	32,972	36,115	32,488	49,292	38,891	36,505	
	0	0	0	0	6	4	15	22	6	9	2	64	
TOTAL	---	---	33,000	40,000	45,900	50,000	60,000	62,800	62,650	65,588	53,000	53,000	
	---	31,000	30,300	35,200	40,000	44,000	48,000	51,000	51,000	55,000	42,450	42,500	
	---	---	28,550	31,500	35,000	39,000	40,000	44,472	43,000	43,250	34,350	35,000	
	---	31,000	32,578	36,382	41,285	46,110	51,928	56,956	53,204	58,831	46,672	46,266	
	---	---	16,245	8,314	9,970	12,683	18,907	23,102	17,503	27,206	20,621	18,225	
	0	1	85	219	262	242	161	191	97	82	71	1,411	

TABLE-3.4.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Mgt-R&D	---	30,875	35,300	39,925	39,500	41,800	44,000	50,000	71,300	49,525	---	45,000	- 75th %-ile
	20,800	23,675	26,200	34,200	34,000	38,182	39,780	42,000	52,700	38,690	39,540	38,000	- Median
	---	18,463	22,000	29,073	28,000	30,550	36,000	35,000	41,250	32,500	---	32,000	- 25th %-ile
	20,800	24,338	28,153	34,405	35,591	36,452	41,429	44,799	57,200	41,385	39,540	40,331	- Mean
	4,667	6,558	7,525	6,471	9,933	6,335	6,842	15,969	23,538	12,238	---	14,460	- Std. Dev.
	2	4	9	26	23	17	23	61	14	8	1	188	- Count
Basic research	21,830	21,500	24,000	31,000	34,325	33,000	54,000	47,250	---	48,125	---	30,000	
	17,800	18,000	21,000	28,961	31,140	31,000	40,000	38,850	45,938	43,500	---	22,660	
	15,875	16,400	19,250	24,000	22,905	22,000	30,000	28,750	---	28,250	---	18,450	
	18,657	18,954	21,649	28,305	29,667	28,667	42,986	37,950	45,938	39,917	---	25,964	
	3,190	3,214	4,404	5,755	5,788	5,859	18,405	9,910	2,917	10,022	---	10,746	
	6	35	20	13	6	3	7	6	2	6	0	104	
Applied R&D	20,500	22,000	26,732	29,350	32,000	36,050	37,588	39,750	41,000	40,375	---	32,000	
	18,000	20,052	22,700	25,766	27,440	29,935	31,500	33,587	31,800	33,360	32,280	25,500	
	16,250	17,916	19,500	22,900	22,988	26,475	26,748	29,850	27,000	26,535	---	20,700	
	19,019	20,087	23,168	26,940	28,382	31,179	31,711	34,013	34,863	35,824	32,280	27,120	
	3,876	3,457	5,301	5,800	6,878	6,114	6,628	7,958	11,786	11,900	---	8,297	
	13	75	117	73	48	40	37	52	23	20	1	499	
Mgt Non-R&D	---	22,625	29,100	36,500	42,500	60,000	63,000	52,000	61,500	61,875	---	50,000	
	35,000	20,000	25,165	29,500	35,000	48,000	48,000	43,000	48,000	42,350	---	38,500	
	---	18,125	20,200	24,750	26,300	34,500	32,000	35,000	36,313	29,650	---	27,585	
	35,000	23,125	24,998	31,386	38,235	46,841	51,067	52,639	55,490	47,350	---	43,406	
	---	10,340	5,057	11,025	14,384	15,022	23,005	36,190	31,220	20,493	---	24,843	
	1	8	15	16	19	22	15	31	17	14	0	158	
Marketing	---	27,250	27,303	35,850	45,875	44,000	47,750	41,388	50,530	45,000	---	41,000	
	26,450	21,750	24,900	33,600	35,500	35,832	36,000	37,750	40,000	40,000	---	33,600	
	---	18,849	20,700	27,600	30,500	30,000	33,850	30,750	36,250	34,000	---	26,430	
	26,4[illegible]	22,567	25,020	32,747	40,827	36,447	39,540	37,935	42,730	40,291	---	34,340	
	3,[illegible]	5,971	5,541	7,931	14,782	8,478	7,051	8,883	9,226	8,940	---	11,184	
	2	18	28	17	22	19	10	22	12	17	0	167	
Prod & QC	21,225	21,188	24,250	32,075	34,000	37,125	37,000	34,925	40,250	47,400	27,000	30,630	
	20,500	19,100	22,000	28,150	29,000	30,800	32,000	30,000	28,620	32,000	23,774	24,500	
	18,000	17,700	18,700	24,250	23,800	28,250	26,700	27,500	23,500	24,500	21,600	21,000	
	19,790	19,181	22,490	29,029	29,010	32,940	32,511	32,550	32,039	35,826	24,125	26,799	
	1,668	3,065	6,469	7,736	6,037	9,767	8,173	8,661	9,825	13,330	2,717	8,949	
	5	52	89	32	25	24	31	37	17	7	3	325	
Forensic	18,805	20,225	23,970	25,000	37,738	32,340	32,500	36,180	38,000	60,000	---	30,000	
	14,000	18,350	21,650	23,460	34,500	28,700	28,000	28,662	32,680	36,500	---	24,000	
	12,750	15,300	18,585	21,000	30,650	24,300	27,000	25,100	25,590	32,000	---	19,000	
	15,422	18,905	21,325	23,248	33,806	28,762	29,167	32,375	32,090	42,833	---	25,028	
	3,407	5,860	4,243	3,599	4,955	4,870	2,930	10,846	6,446	15,036	---	8,702	
	5	20	24	15	8	9	3	12	8	3	0	103	
Writing/ editing	---	---	---	---	---	---	27,200	---	32,000	---	---	34,050	
	22,000	---	20,250	32,200	39,600	20,774	26,070	45,650	32,000	---	---	26,850	
	---	---	---	---	---	---	25,200	---	24,000	---	---	23,500	
	22,000	---	20,250	32,200	39,600	20,774	26,157	45,650	29,333	---	---	29,489	
	---	---	8,839	---	---	---	1,003	6,152	4,619	---	---	9,318	
	1	0	2	1	1	1	3	2	3	0	0	14	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	30,000	
	---	25,500	18,500	---	---	30,000	---	---	---	---	---	25,500	
	---	---	---	---	---	---	---	---	---	---	---	18,500	
	---	25,500	18,500	---	---	30,000	---	---	---	---	---	24,667	
	---	---	---	---	---	---	---	---	---	---	---	5,795	
	0	1	1	0	0	1	0	0	0	0	0	3	
Consulting	---	---	24,000	---	---	---	---	80,000	---	---	---	42,000	
	---	---	23,800	26,200	---	30,000	42,000	43,693	---	---	---	30,400	
	---	---	21,400	---	---	---	---	35,446	---	---	---	23,800	
	---	---	23,067	26,200	---	30,000	42,000	53,046	---	---	---	36,890	
	---	---	1,447	5,940	---	---	---	25,515	---	---	---	19,779	
	0	0	3	2	0	1	1	4	0	0	0	11	
Other	---	23,850	29,000	41,300	---	---	---	53,850	48,000	---	---	34,700	
	14,350	19,900	25,200	28,675	37,000	25,924	---	34,800	38,000	61,000	25,000	28,500	
	---	13,075	21,000	20,588	---	---	---	31,470	28,750	---	---	22,511	
	14,350	18,917	24,929	30,188	37,000	25,924	---	41,150	38,250	61,000	25,000	31,662	
	---	5,969	4,780	11,069	11,314	4,350	---	17,058	10,308	41,012	0	15,850	
	1	6	7	4	2	2	0	8	4	2	2	38	
No Response	---	22,000	24,800	32,500	29,600	40,500	50,500	88,000	61,250	53,750	---	41,760	
	15,200	20,000	23,348	28,975	22,000	27,750	43,500	31,500	43,500	44,500	---	29,600	
	---	19,532	19,400	26,700	18,000	24,375	31,380	25,750	34,500	40,880	---	22,000	
	15,200	20,529	22,907	30,125	23,200	30,875	41,452	64,337	46,667	46,752	---	36,092	
	3,960	2,664	4,246	5,096	5,892	9,114	10,158	70,611	13,630	6,645	---	30,400	
	2	9	7	6	3	4	5	8	6	5	0	55	
TOTAL	21,293	22,000	25,850	33,000	36,875	39,600	41,700	45,000	49,625	47,425	32,280	36,000	
	18,000	19,855	22,500	28,000	31,380	32,232	35,000	36,300	38,500	38,250	25,000	28,000	
	16,000	17,242	19,775	23,630	25,500	28,700	29,000	30,000	29,000	31,825	23,774	22,000	
	19,250	19,990	23,134	29,033	32,810	34,835	37,122	40,888	42,594	41,097	27,742	31,097	
	4,755	4,456	5,662	7,412	10,687	10,499	12,515	22,202	19,902	14,331	6,176	14,810	
	38	228	322	205	160	143	135	243	102	82	7	1,665	

TABLE-3.4.2

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--MEN Only
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Mgt-R&D	---	32,000	36,919	39,925	39,625	41,800	44,250	50,000	71,300	49,525	---	45,000 - 75th %-ile
	24,100	27,500	27,100	34,200	33,450	38,182	39,890	42,030	52,700	38,690	39,540	39,000 - Median
	---	18,000	19,325	29,073	27,750	30,550	36,000	35,000	41,250	32,500	---	32,100 - 25th %-ile
	24,100	25,833	27,863	34,405	35,414	36,452	41,616	45,079	57,200	41,385	39,540	40,854 - Mean
	---	7,147	8,939	6,471	10,150	6,335	6,942	15,952	23,538	12,238	---	14,472 - Std. Dev.
	1	3	6	26	22	17	22	60	14	8	1	180 - Count
Basic research	23,600	22,000	24,000	31,500	35,775	---	54,000	47,500	---	48,750	---	32,775
	18,600	19,200	21,500	29,131	33,300	32,000	40,000	45,000	45,938	45,000	---	25,000
	17,000	16,845	19,250	25,650	30,210	---	30,000	28,850	---	35,500	---	20,000
	19,733	19,356	21,779	28,772	33,095	32,000	42,986	39,540	45,938	42,700	---	28,401
	3,443	3,299	4,661	5,748	2,967	1,414	18,405	10,189	2,917	8,213	---	11,654
	3	18	16	12	4	2	7	5	2	5	0	74
Applied R&D	21,000	22,019	27,240	30,000	33,000	36,400	37,950	40,000	48,000	40,375	---	32,258
	18,400	20,176	23,000	26,150	28,000	30,200	31,750	34,150	35,000	33,360	32,280	27,000
	17,600	17,987	19,650	22,688	23,125	27,000	27,600	29,900	28,440	26,535	---	22,000
	20,062	20,336	23,731	27,210	28,879	31,524	32,350	34,350	36,886	35,824	32,280	28,139
	4,729	3,652	5,575	5,994	7,062	5,860	6,323	7,995	11,674	11,900	---	8,467
	7	52	90	66	41	35	34	49	19	20	1	414
Mgt Non-R&D	---	23,000	29,175	37,250	42,125	58,750	63,000	54,000	62,250	61,875	---	50,000
	35,000	20,000	20,900	31,000	35,000	48,000	48,000	44,000	48,000	42,350	---	40,000
	---	17,500	19,825	26,250	26,280	35,000	32,000	36,128	34,219	29,650	---	28,000
	35,000	23,571	23,650	32,570	36,470	46,481	51,067	53,893	55,833	47,350	---	44,259
	---	11,085	5,573	10,994	12,507	14,410	23,005	36,116	32,211	20,493	---	25,227
	1	7	10	14	18	20	15	30	16	14	0	145
Marketing	---	28,000	27,625	36,000	46,750	44,750	47,750	41,592	50,570	45,000	---	42,000
	24,000	24,000	25,000	33,600	37,000	35,982	36,000	38,000	40,000	40,000	---	34,000
	---	20,000	22,750	27,000	30,900	30,930	33,850	30,750	36,250	34,000	---	28,500
	24,000	24,871	25,474	32,933	41,581	38,141	39,540	38,265	42,730	40,291	---	35,762
	---	5,557	4,876	8,375	14,707	7,344	7,051	8,963	9,226	8,940	---	10,868
	1	12	22	15	21	16	10	21	12	17	0	147
Prod & QC	21,000	21,723	24,500	32,495	34,750	38,750	38,400	34,925	40,500	53,700	---	32,000
	18,000	19,000	22,500	28,000	29,800	32,400	32,000	30,000	28,620	34,000	25,387	26,000
	18,000	17,790	19,400	24,500	23,800	30,000	27,120	27,500	25,000	31,000	---	21,000
	19,000	19,290	22,928	29,510	29,529	34,922	32,884	32,550	32,455	40,680	25,387	27,572
	1,732	3,048	6,766	7,732	6,264	8,722	8,215	8,661	10,078	12,772	2,281	9,155
	3	43	75	29	24	21	29	37	15	5	2	283
Forensic	---	20,190	22,200	25,750	38,875	33,510	32,500	36,240	35,000	60,000	---	30,360
	14,710	18,100	21,000	23,730	35,225	29,350	28,000	30,000	30,360	36,500	---	24,600
	---	15,075	17,900	21,149	32,925	25,425	27,000	25,400	24,000	32,000	---	19,860
	14,710	19,327	20,590	24,021	35,442	29,598	29,167	33,136	29,787	42,833	---	26,370
	3,125	6,854	3,841	3,121	3,616	4,464	2,930	11,034	5,522	15,036	---	9,138
	2	12	15	12	6	8	3	11	3	3	0	75
Writing/ editing	---	---	---	---	---	---	---	---	---	---	---	43,475
	---	---	20,250	---	---	---	27,200	45,650	32,000	---	---	29,600
	---	---	---	---	---	---	---	---	---	---	---	23,375
	---	---	20,250	---	---	---	27,200	45,650	32,000	---	---	31,833
	---	---	8,839	---	---	---	---	6,152	---	---	---	12,551
	0	0	2	0	0	0	1	2	1	0	0	6
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---
	---	25,500	---	---	---	30,000	---	---	---	---	---	27,750
	---	---	---	---	---	---	---	---	---	---	---	---
	---	25,500	---	---	---	30,000	---	---	---	---	---	27,750
	---	---	---	---	---	---	---	---	---	---	---	3,182
	0	1	0	0	0	1	0	0	0	0	0	2
Consulting	---	---	---	---	---	---	---	80,000	---	---	---	46,000
	---	---	21,400	26,200	---	30,000	42,000	43,693	---	---	---	34,800
	---	---	---	---	---	---	---	35,446	---	---	---	26,000
	---	---	21,400	26,200	---	30,000	42,000	53,046	---	---	---	39,776
	---	---	---	5,940	---	---	---	25,515	---	---	---	20,915
	0	0	1	2	0	1	1	4	0	0	0	9
Other	---	24,700	30,000	41,300	---	---	---	53,850	48,000	---	---	35,000
	---	18,300	25,250	28,675	37,000	25,924	---	34,800	38,000	61,000	25,000	29,000
	---	12,150	20,750	20,588	---	---	---	31,470	28,750	---	---	25,000
	---	18,400	25,583	30,188	37,000	25,924	---	41,150	38,250	61,000	25,000	32,751
	---	6,522	4,880	11,069	11,314	4,350	---	17,058	10,308	41,012	0	16,030
	0	5	6	4	2	2	0	8	4	2	2	35
No Response	---	22,000	28,650	32,500	29,600	40,500	52,750	88,000	60,000	53,750	---	44,250
	---	21,250	23,374	28,975	22,000	27,750	39,110	31,500	49,500	44,500	---	30,000
	---	19,573	22,337	26,700	18,000	24,375	30,960	25,750	35,000	40,880	---	23,700
	---	20,941	24,787	30,125	23,200	30,875	40,940	64,337	48,167	46,752	---	39,353
	---	1,323	3,798	5,096	5,892	9,114	11,655	70,611	12,553	6,645	---	33,762
	0	4	4	6	3	4	4	8	3	5	0	41
TOTAL	23,700	22,000	26,400	33,394	37,100	40,000	42,000	45,000	50,000	47,500	34,095	38,100
	18,500	20,000	23,000	28,000	32,000	33,000	35,660	36,504	40,000	40,000	26,000	30,000
	17,450	17,700	20,000	24,000	26,260	29,500	30,000	30,000	30,000	32,000	24,694	23,000
	20,508	20,442	23,447	29,482	33,263	35,688	37,713	41,371	43,880	41,729	28,766	32,547
	5,347	4,843	5,901	7,456	10,542	9,849	12,591	22,396	20,472	14,219	6,080	15,293
	18	157	247	186	141	127	126	235	89	79	6	1,411

TABLE-3.4.3

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY--WOMEN Only
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Mgt-R&D	---	---	34,600	---	---	---	---	---	---	---	---	36,640	- 75th %-ile
	17,500	19,850	26,200	---	39,500	---	37,320	28,000	---	---	---	27,100	- Median
	---	---	25,400	---	---	---	---	---	---	---	---	21,238	- 25th %-ile
	17,500	19,850	28,733	---	39,500	---	37,320	28,000	---	---	---	28,546	- Mean
	---	---	5,096	---	---	---	---	---	---	---	---	7,991	- Std. Dev.
	1	1	3	0	1	0	1	1	0	0	0	8	- Count
Basic research	21,240	20,128	24,750	---	---	---	---	---	---	---	---	22,640	
	16,000	17,700	20,750	22,700	22,810	22,000	---	30,000	---	26,000	---	19,828	
	15,500	16,200	17,875	---	---	---	---	---	---	---	---	16,850	
	17,580	18,528	21,125	22,700	22,810	22,000	---	30,000	---	26,000	---	19,951	
	3,179	3,272	3,705	---	269	---	---	---	---	---	---	3,962	
	3	17	4	1	2	1	0	1	0	1	0	30	
Applied R&D	20,310	21,850	24,000	27,000	29,300	27,750	32,000	---	25,500	---	---	24,500	
	17,900	20,075	20,400	24,000	25,000	25,500	22,400	31,000	22,500	---	---	21,576	
	16,150	17,700	18,660	23,000	21,000	22,725	19,000	---	18,000	---	---	18,660	
	18,164	19,663	21,293	24,394	25,471	25,325	24,467	31,000	22,000	---	---	21,761	
	2,536	2,961	3,777	2,481	5,155	2,637	6,742	---	3,775	---	---	4,218	
	5	22	27	7	7	4	3	1	3	0	0	79	
Mgt Non-R&D	---	---	30,150	---	---	---	---	---	---	---	---	31,122	
	---	20,000	27,000	23,100	70,000	30,887	---	15,000	50,000	---	---	28,050	
	---	---	25,583	---	---	---	---	---	---	---	---	21,291	
	---	20,000	27,693	23,100	70,000	30,887	---	15,000	50,000	---	---	30,879	
	---	---	2,450	9,758	---	---	---	---	---	---	---	15,248	
	0	1	8	2	1	1	0	1	1	0	0	12	
Marketing	---	21,875	26,985	---	---	---	---	---	---	---	---	28,375	
	28,900	17,750	20,575	28,200	25,000	23,203	---	31,000	---	---	---	21,250	
	---	14,188	18,750	---	---	---	---	---	---	---	---	17,646	
	28,900	17,958	23,355	28,200	25,000	23,203	---	31,000	---	---	---	22,633	
	---	3,881	7,853	---	---	9,359	---	---	---	---	---	6,651	
	1	6	6	1	1	2	0	1	0	0	0	18	
Prod & QC	---	21,188	22,830	29,000	28,650	21,000	---	---	---	---	---	23,820	
	20,975	20,330	20,550	28,300	26,800	20,000	32,220	---	21,840	23,690	21,600	21,000	
	---	15,575	16,750	15,845	22,250	16,200	---	---	---	---	---	18,500	
	20,975	18,740	20,144	24,382	25,900	19,067	32,220	---	21,840	23,690	21,600	21,305	
	672	3,492	3,952	7,401	3,489	2,532	---	---	---	1,146	---	4,329	
	2	8	14	3	4	3	1	0	1	2	1	39	
Forensic	20,690	21,517	24,200	25,000	---	---	---	---	---	---	---	24,225	
	14,000	18,378	22,200	19,000	28,900	22,080	---	24,000	39,000	---	---	21,250	
	13,000	15,348	20,628	16,470	---	---	---	---	---	---	---	16,778	
	15,897	18,271	22,551	20,157	28,900	22,080	---	24,000	39,000	---	---	21,435	
	4,181	4,316	4,821	4,381	6,505	---	---	---	---	---	---	6,228	
	3	8	9	3	2	1	0	1	1	0	0	28	
Writing/ editing	---	---	---	---	---	---	---	---	---	---	---	32,150	
	22,000	---	---	32,200	39,600	20,774	25,635	---	28,000	---	---	25,635	
	---	---	---	---	---	---	---	---	---	---	---	22,500	
	22,000	---	---	32,200	39,600	20,774	25,635	---	28,000	---	---	27,731	
	---	---	---	---	---	---	615	---	5,657	---	---	6,363	
	1	0	0	1	1	1	2	0	2	0	0	8	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	18,500	---	---	---	---	---	---	---	---	18,500	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	18,500	---	---	---	---	---	---	---	---	18,500	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	1	0	0	0	0	0	0	0	0	1	
Consulting	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	23,900	---	---	---	---	---	---	---	---	23,900	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	23,900	---	---	---	---	---	---	---	---	23,900	
	---	---	141	---	---	---	---	---	---	---	---	141	
	0	0	2	0	0	0	0	0	0	0	0	2	
Other	---	---	---	---	---	---	---	---	---	---	---	21,500	
	14,350	21,500	21,000	---	---	---	---	---	---	---	---	21,000	
	---	---	---	---	---	---	---	---	---	---	---	14,350	
	14,350	21,500	21,000	---	---	---	---	---	---	---	---	18,950	
	---	---	---	---	---	---	---	---	---	---	---	3,992	
	1	1	1	0	0	0	0	0	0	0	0	3	
No Response	---	22,750	24,800	---	---	---	---	---	---	---	---	29,250	
	15,200	20,000	19,400	---	---	---	43,500	---	35,250	---	---	20,000	
	---	17,750	17,000	---	---	---	---	---	---	---	---	17,500	
	15,200	20,200	20,400	---	---	---	43,500	---	35,250	---	---	23,585	
	3,960	3,546	3,995	---	---	---	---	---	3,182	---	---	9,152	
	2	5	3	0	0	0	1	0	2	0	0	13	
TOTAL	21,240	21,500	24,800	28,225	33,500	27,500	36,045	31,000	37,875	26,000	---	25,000	
	17,900	19,812	21,000	24,500	25,000	22,080	29,035	29,000	28,750	24,500	21,600	21,450	
	15,500	16,800	19,000	20,200	23,000	20,387	23,100	21,750	22,335	22,880	---	18,350	
	18,229	19,040	22,103	24,093	29,443	23,127	29,714	26,500	30,334	24,460	21,600	22,434	
	4,026	3,291	4,681	4,935	11,442	4,639	8,118	6,221	9,844	1,560	---	6,614	
	19	69	75	18	19	13	8	6	10	3	1	241	

TABLE-3.4.4

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Mgt-R&D	---	---	32,100	41,500	49,000	46,650	49,700	51,700	61,388	60,000	52,500	50,000	- 75th %-tile
	---	20,000	27,000	35,350	41,400	40,000	42,240	41,500	50,500	51,500	49,500	41,400	- Median
	---	---	25,650	28,125	36,830	33,750	36,000	37,500	41,250	42,500	45,000	35,000	- 25th %-tile
	---	20,000	28,644	42,916	42,925	40,089	43,997	44,480	51,084	53,654	48,000	43,999	- Mean
	---	---	5,806	40,009	7,410	7,662	10,110	10,632	11,213	18,148	6,934	17,993	- Std. Dev.
	0	1	9	24	21	22	25	42	16	14	7	181	- Count
Basic research	---	24,000	25,300	30,400	34,000	38,400	39,600	44,750	37,468	---	---	33,000	
	---	23,750	23,500	27,000	30,600	30,300	32,800	40,600	31,870	48,000	---	27,000	
	---	22,325	20,900	22,900	25,900	30,000	29,250	33,725	26,535	---	---	23,500	
	---	23,188	23,276	26,164	38,841	32,900	34,109	40,313	31,958	48,000	---	30,954	
	---	1,738	3,389	4,527	42,494	4,766	6,072	8,258	6,224	---	---	22,008	
	0	8	25	11	22	3	10	8	4	1	0	92	
Applied R&D	---	24,500	26,000	32,000	35,500	37,960	42,600	40,090	41,500	42,025	40,228	35,000	
	---	23,000	22,500	27,250	32,000	33,660	34,000	35,500	38,000	33,460	29,500	29,000	
	---	21,700	21,000	24,086	27,255	27,700	29,000	30,000	30,000	28,300	25,250	24,000	
	---	22,817	23,506	34,089	31,999	33,455	36,657	36,430	35,555	36,639	32,189	31,470	
	---	2,393	3,637	36,676	7,032	7,446	10,238	8,388	7,758	12,379	10,256	18,147	
	0	15	84	70	46	27	41	38	11	16	12	360	
Mgt Non-R&D	---	---	35,106	35,000	45,000	72,750	90,000	51,250	42,000	85,000	---	50,000	
	---	---	28,128	30,750	36,550	51,000	48,000	40,000	36,500	50,000	38,000	37,630	
	---	---	25,983	26,586	26,500	35,550	37,945	35,500	31,500	44,900	---	32,000	
	---	---	29,739	30,565	38,664	53,200	70,366	43,688	40,243	61,960	38,000	46,249	
	---	---	5,085	4,991	14,030	19,428	52,677	11,446	18,969	23,900	---	27,876	
	0	0	4	14	14	6	16	25	7	5	1	92	
Marketing	---	---	30,000	38,500	44,375	43,000	63,775	43,000	52,750	50,750	57,000	41,250	
	---	18,600	26,000	30,150	37,700	36,000	52,950	33,600	41,500	37,500	36,000	33,700	
	---	---	22,000	27,000	32,825	30,500	29,750	29,500	30,500	31,500	34,000	28,815	
	---	18,600	26,435	32,119	39,356	36,800	49,100	37,582	43,250	40,000	42,333	36,281	
	---	849	4,306	7,473	9,030	7,848	16,753	11,161	16,994	9,571	12,741	11,716	
	0	2	15	14	16	9	6	11	8	6	3	90	
Prod & QC	---	24,263	26,100	33,030	35,500	37,000	44,325	44,600	37,000	51,839	55,000	34,100	
	---	21,850	23,650	28,000	28,100	33,000	33,900	34,050	28,000	38,500	35,000	28,200	
	---	19,715	19,177	22,175	25,250	31,620	26,675	31,715	19,449	32,625	29,000	23,700	
	---	22,043	23,217	27,783	31,140	34,887	34,767	35,765	29,299	42,074	38,714	30,325	
	---	2,625	3,750	6,358	12,086	5,841	9,053	9,471	11,331	11,974	14,280	10,176	
	0	4	22	30	21	7	6	8	6	8	7	119	
Forensic	---	---	23,625	29,750	26,390	29,150	46,125	48,000	---	---	33,000	30,000	
	---	16,500	22,000	28,500	20,000	25,000	36,750	41,500	---	31,800	29,260	26,250	
	---	---	19,100	26,800	16,400	22,500	21,000	32,000	---	---	28,100	21,000	
	---	16,500	21,047	27,656	21,116	25,660	34,625	40,500	---	31,800	30,120	26,962	
	---	---	3,517	3,175	5,137	3,978	13,288	8,347	---	---	2,561	8,230	
	0	1	10	9	5	5	4	4	0	1	3	42	
Writing/ editing	---	---	---	37,000	---	---	---	---	---	70,500	---	37,000	
	---	25,000	20,050	29,410	---	29,550	35,190	28,400	---	39,780	20,100	28,400	
	---	---	---	25,000	---	---	---	---	---	23,800	---	23,800	
	---	25,000	20,050	30,470	---	29,550	35,190	28,400	---	44,693	20,100	31,238	
	---	---	71	6,070	---	2,475	7,509	---	---	23,735	---	12,723	
	0	1	2	3	0	2	2	1	0	3	1	15	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	49,100	
	---	---	---	---	---	---	40,000	---	41,338	---	---	40,000	
	---	---	---	---	---	---	---	---	---	---	---	33,575	
	---	---	---	---	---	---	40,000	---	41,338	---	---	40,892	
	---	---	---	---	---	---	---	---	10,978	---	---	7,801	
	0	0	0	0	0	0	1	0	2	0	0	3	
Consulting	---	---	33,625	38,500	30,000	---	---	---	---	---	---	38,500	
	---	---	24,500	29,000	28,752	33,200	22,000	45,480	---	44,824	52,000	29,000	
	---	---	19,500	25,000	25,000	---	---	---	---	---	---	25,000	
	---	---	25,875	30,856	27,917	33,200	22,000	45,480	---	44,824	52,000	31,618	
	---	---	7,487	8,449	2,602	---	---	---	---	---	---	9,615	
	0	0	4	7	3	1	1	1	0	1	1	19	
Other	---	---	---	37,000	---	50,000	---	33,250	---	---	---	38,000	
	---	25,000	19,620	32,300	23,000	43,500	45,000	32,000	33,500	---	---	32,150	
	---	---	---	25,000	---	32,000	---	29,250	---	---	---	28,125	
	---	25,000	19,620	31,260	23,000	41,833	45,000	31,400	33,500	---	---	33,171	
	---	---	---	7,130	---	9,115	14,142	2,162	7,778	---	---	9,008	
	0	1	1	5	1	3	2	5	2	0	0	20	
No Response	---	---	25,500	35,275	37,500	50,100	38,750	100,975	---	---	---	36,350	
	---	19,100	24,210	30,400	28,000	36,000	29,000	42,950	34,000	---	21,000	29,000	
	---	---	21,975	27,700	22,500	30,000	28,250	26,700	---	---	---	24,210	
	---	19,100	23,953	31,125	29,600	41,500	32,000	56,875	34,000	---	21,000	34,434	
	---	---	2,738	4,077	8,849	21,076	6,683	43,277	---	---	---	19,718	
	0	1	6	4	5	7	4	4	1	0	1	33	
TOTAL	---	24,500	26,643	33,200	38,625	42,375	45,925	45,000	49,050	53,000	48,375	40,000	
	---	23,000	23,500	29,000	33,108	35,000	38,750	38,000	39,000	41,000	35,500	31,770	
	---	20,000	21,000	25,000	27,000	30,285	30,000	33,000	31,250	32,000	28,325	25,500	
	---	22,315	23,944	32,734	35,150	37,121	42,897	40,729	40,762	45,136	37,270	35,079	
	---	2,608	4,208	26,861	18,549	11,188	24,064	12,290	13,959	16,920	12,124	28,762	
	0	34	182	191	154	92	118	147	57	55	36	1,066	

TABLE-3.4.5

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--MEN Only
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Mgt-R&D	---	---	32,200	42,900	49,500	45,650	50,000	51,900	61,388	60,000	52,500	50,000 - 75th %-ile
	---	20,000	26,000	37,500	41,700	39,875	42,450	42,000	50,500	51,500	49,500	42,000 - Median
	---	---	25,500	28,250	37,125	33,250	36,000	38,000	41,250	42,500	45,000	35,500 - 25th %-ile
	---	20,000	27,971	44,618	43,239	39,498	44,721	45,004	51,084	53,654	48,000	44,620 - Mean
	---	---	6,499	42,554	7,459	7,691	10,228	10,588	11,213	18,148	6,934	18,385 - Std. Dev.
	0	1	7	21	20	20	23	40	16	14	7	169 - Count
Basic research	---	24,300	24,000	30,400	33,750	38,400	41,200	44,750	---	---	---	33,225
	---	23,650	23,160	27,000	30,600	30,300	36,000	40,600	31,870	48,000	---	27,000
	---	21,375	20,900	22,900	25,700	30,000	28,250	33,725	---	---	---	23,500
	---	23,000	22,819	26,164	29,850	32,900	35,137	40,313	31,870	48,000	---	28,950
	---	2,009	2,872	4,527	4,787	4,766	6,433	8,258	7,396	---	---	7,599
	0	6	21	11	20	3	8	8	2	1	0	80
Applied R&D	---	25,000	26,790	32,000	35,510	38,168	45,000	40,180	42,125	42,025	37,160	35,510
	---	23,500	22,500	27,000	32,000	34,000	35,000	35,000	38,300	33,460	29,000	29,500
	---	21,925	21,000	24,000	27,850	27,850	29,000	31,000	28,500	28,300	25,000	24,158
	---	23,480	23,647	35,305	32,585	33,887	37,133	36,880	39,910	36,639	31,115	32,282
	---	1,577	3,826	40,557	6,547	7,543	10,544	8,404	8,082	12,379	10,024	19,410
	0	10	65	57	41	25	37	33	10	16	11	305
Mgt Non-R&D	---	---	35,106	35,000	45,000	73,500	100,000	52,500	48,875	85,000	---	50,750
	---	---	28,128	30,000	38,100	65,000	50,000	40,000	35,250	50,000	38,000	38,000
	---	---	25,983	26,172	27,750	35,600	40,000	36,000	28,425	44,900	---	32,000
	---	---	29,739	30,223	39,942	56,640	72,573	44,539	39,950	61,960	38,000	47,320
	---	---	5,085	5,022	14,740	19,572	53,754	11,404	20,762	23,900	---	28,918
	0	0	4	13	12	5	15	23	6	5	1	84
Marketing	---	---	30,000	39,000	45,000	43,000	64,850	43,000	52,750	50,750	---	42,250
	---	18,600	27,000	30,300	38,400	36,000	60,000	33,600	41,500	37,500	45,500	33,800
	---	---	23,500	27,630	32,500	30,500	37,450	29,500	30,500	31,500	---	29,000
	---	18,600	26,837	33,128	39,680	36,800	52,920	37,582	43,250	40,000	45,500	36,764
	---	849	4,166	6,712	9,250	7,848	15,536	11,161	16,994	9,571	16,263	11,760
	0	2	14	13	15	9	8	11	8	6	2	85
Prod & QC	---	24,563	25,122	33,260	38,655	37,000	44,325	44,600	41,000	51,839	55,000	35,300
	---	21,850	23,300	28,000	28,050	33,000	33,900	34,050	31,000	38,500	35,000	28,650
	---	19,715	19,177	21,400	25,375	31,620	26,675	31,715	22,500	32,625	29,000	23,775
	---	22,043	22,758	27,924	31,747	34,887	34,767	35,765	31,600	42,074	38,714	30,867
	---	2,625	3,417	6,661	12,846	5,841	9,053	9,471	10,991	11,974	14,280	10,512
	0	4	18	25	18	7	6	8	5	8	7	106
Forensic	---	---	24,000	29,875	26,390	---	46,125	49,000	---	---	33,000	30,300
	---	---	22,000	28,500	20,000	26,400	36,750	45,000	---	31,800	29,250	28,100
	---	---	19,800	27,750	16,400	---	21,000	30,000	---	---	28,100	27,500
	---	---	21,839	28,613	21,116	26,400	34,625	41,333	---	31,800	28,120	28,025
	---	---	2,877	1,450	5,137	7,637	13,288	10,017	---	---	2,561	8,328
	0	0	7	8	5	2	4	3	0	1	3	33
Writing/ editing	---	---	---	---	---	---	---	---	---	70,500	---	39,780
	---	25,000	20,000	---	---	---	29,880	28,400	---	39,780	---	28,400
	---	---	---	---	---	---	---	---	---	23,800	---	23,800
	---	25,000	20,000	---	---	---	29,880	28,400	---	44,693	---	33,909
	---	---	---	---	---	---	---	---	---	23,735	---	17,296
	0	1	1	0	0	0	1	1	0	3	0	7
Data Proc	---	---	---	---	---	---	---	---	---	---	---	49,100
	---	---	---	---	---	---	40,000	---	41,338	---	---	40,000
	---	---	---	---	---	---	---	---	---	---	---	33,575
	---	---	---	---	---	---	40,000	---	41,338	---	---	40,892
	---	---	---	---	---	---	---	---	10,978	---	---	7,801
	0	0	0	0	0	0	1	0	2	0	0	3
Consulting	---	---	35,500	38,500	---	---	---	---	---	---	---	41,550
	---	---	21,000	29,000	26,876	33,200	22,000	45,480	---	44,824	52,000	29,000
	---	---	19,000	25,000	---	---	---	---	---	---	---	23,500
	---	---	25,167	30,856	26,876	33,200	22,000	45,480	---	44,824	52,000	31,926
	---	---	9,005	8,449	2,653	---	---	---	---	---	---	10,145
	0	0	3	7	2	1	1	1	0	1	1	17
Other	---	---	---	34,325	---	---	---	33,250	---	---	---	37,000
	---	---	19,620	31,150	23,000	46,750	45,000	32,000	33,500	---	---	32,300
	---	---	---	22,500	---	---	---	29,250	---	---	---	28,250
	---	---	19,620	29,325	23,000	46,750	45,000	31,400	33,500	---	---	33,378
	---	---	---	6,544	---	4,596	14,142	2,162	7,778	---	---	9,483
	0	0	1	4	1	2	2	5	2	0	0	17
No Response	---	---	27,300	36,700	40,250	58,825	---	120,000	---	---	---	39,350
	---	19,100	24,510	29,800	29,000	36,200	35,500	42,000	34,000	---	21,000	30,000
	---	---	20,955	27,000	20,750	31,500	---	21,600	---	---	---	24,510
	---	19,100	24,255	31,167	30,000	44,917	35,500	61,200	34,000	---	21,000	36,349
	---	---	3,443	4,992	10,165	20,856	9,192	51,934	---	---	---	22,088
	0	1	4	3	4	6	2	3	1	0	1	25
TOTAL	---	24,675	26,540	33,325	39,140	43,425	46,650	46,470	49,775	53,000	49,750	41,000
	---	23,000	23,500	28,800	33,900	35,550	40,000	38,125	39,750	41,000	35,000	32,500
	---	20,000	21,000	25,000	27,000	31,665	31,343	33,350	31,875	32,000	28,550	26,000
	---	22,491	24,010	33,423	34,392	38,043	44,160	41,192	41,684	45,136	37,625	35,852
	---	2,331	4,246	29,030	10,199	11,315	25,186	12,519	14,037	16,920	12,245	18,676
	0	25	145	162	138	80	105	136	52	55	33	931

TABLE-3.4.6

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY--WOMEN Only
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Mgt-R&D	---	---	---	38,000	---	---	---	---	---	---	---	38,000 - 75th %-ile
	---	---	31,000	32,000	36,660	46,000	35,680	34,000	---	---	---	35,680 - Median
	---	---	---	23,000	---	---	---	---	---	---	---	30,500 - 25th %-ile
	---	---	31,000	31,000	36,660	46,000	35,680	34,000	---	---	---	35,252 - Mean
	---	---	1,414	7,550	---	5,657	962	5,657	---	---	---	6,795 - Std. Dev.
	0	0	2	3	1	2	2	2	0	0	0	12 - Count
Basic research	---	---	29,422	---	---	---	---	---	---	---	---	30,000
	---	23,750	27,344	---	128,750	---	30,000	---	32,045	---	---	28,594
	---	---	20,250	---	---	---	---	---	---	---	---	24,625
	---	23,750	25,672	---	128,750	---	30,000	---	32,045	---	---	44,315
	---	354	5,273	---	140,361	---	0	---	7,842	---	---	58,037
	0	2	4	0	2	0	2	0	2	0	0	12
Applied R&D	---	23,750	25,000	32,250	34,450	---	40,200	40,500	---	---	---	30,300
	---	23,000	22,500	29,000	29,350	28,050	30,800	37,500	32,000	---	44,000	25,500
	---	18,475	21,700	25,250	18,850	---	26,000	34,400	---	---	---	22,750
	---	21,490	23,023	29,278	27,190	28,050	32,333	33,460	32,000	---	44,000	26,954
	---	3,337	2,936	4,321	9,760	3,606	7,223	8,550	---	---	---	6,681
	0	5	19	12	5	2	5	5	1	0	1	55
Mgt Non-R&D	---	---	---	---	---	---	---	---	---	---	---	38,445
	---	---	---	35,000	31,000	---	37,260	27,800	42,000	---	---	35,000
	---	---	---	---	---	---	---	---	---	---	---	27,600
	---	---	---	35,000	31,000	---	37,260	27,800	42,000	---	---	34,010
	---	---	---	---	5,657	---	---	---	---	---	---	5,728
	0	0	0	1	2	0	1	1	1	0	0	6
Marketing	---	---	---	---	---	---	---	---	---	---	---	35,250
	---	---	20,800	19,000	34,500	---	30,000	---	---	---	36,000	30,000
	---	---	---	---	---	---	---	---	---	---	---	19,900
	---	---	20,800	19,000	34,500	---	30,000	---	---	---	36,000	28,060
	---	---	---	---	---	---	---	---	---	---	---	7,795
	0	0	1	1	1	0	1	0	0	0	1	5
Prod & QC	---	---	28,935	32,000	32,500	---	---	---	---	---	---	30,250
	---	---	26,820	25,900	29,000	---	---	---	17,796	---	---	26,400
	---	---	20,100	22,750	21,000	---	---	---	---	---	---	20,500
	---	---	25,285	27,080	27,500	---	---	---	17,796	---	---	25,910
	---	---	5,030	5,110	5,895	---	---	---	---	---	---	5,257
	0	0	4	5	3	0	0	0	1	0	0	13
Forensic	---	---	22,000	---	---	26,500	---	---	---	---	---	25,750
	---	16,500	22,000	20,000	---	25,000	---	38,000	---	---	---	22,000
	---	---	13,600	---	---	24,000	---	---	---	---	---	18,250
	---	16,500	19,200	20,000	---	25,167	---	38,000	---	---	---	23,067
	---	---	4,850	---	---	1,258	---	---	---	---	---	6,927
	0	1	3	1	0	3	0	1	0	0	0	9
Writing/ editing	---	---	---	37,000	---	---	---	---	---	---	---	35,575
	---	---	20,100	29,410	---	29,550	40,500	---	---	---	20,100	28,605
	---	---	---	25,000	---	---	---	---	---	---	---	21,325
	---	---	20,100	30,470	---	29,550	40,500	---	---	---	20,100	28,901
	---	---	---	6,070	---	2,475	---	---	---	---	---	7,344
	0	0	1	3	0	2	1	0	0	0	1	8
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	0	0	0	0	0
Consulting	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	28,000	---	30,000	---	---	---	---	---	---	29,000
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	28,000	---	30,000	---	---	---	---	---	---	29,000
	---	---	---	---	---	---	---	---	---	---	---	1,414
	0	0	1	0	1	0	0	0	0	0	0	2
Other	---	---	---	---	---	---	---	---	---	---	---	39,000
	---	25,000	---	39,000	---	32,000	---	---	---	---	---	32,000
	---	---	---	---	---	---	---	---	---	---	---	25,000
	---	25,000	---	39,000	---	32,000	---	---	---	---	---	32,000
	---	---	---	---	---	---	---	---	---	---	---	7,000
	0	1	0	1	0	1	0	0	0	0	0	3
No Response	---	---	---	---	---	---	---	---	---	---	---	30,500
	---	---	23,350	31,000	28,000	21,000	28,500	43,900	---	---	---	28,000
	---	---	---	---	---	---	---	---	---	---	---	23,025
	---	---	23,350	31,000	28,000	21,000	28,500	43,900	---	---	---	28,450
	---	---	919	---	---	---	707	---	---	---	---	7,114
	0	0	2	1	1	1	2	1	0	0	0	8
TOTAL	---	24,250	27,000	33,000	34,875	32,000	37,035	39,250	39,795	---	44,000	32,000
	---	23,000	23,000	29,205	29,750	27,800	30,400	37,750	32,000	---	36,000	27,240
	---	18,750	21,350	25,000	27,250	25,000	29,250	27,050	22,148	---	20,100	23,000
	---	21,828	23,688	29,113	41,694	30,518	32,760	34,500	31,177	---	33,367	29,656
	---	3,374	4,103	5,630	50,085	8,523	4,887	7,271	9,485	---	12,166	18,792
	0	9	37	28	16	11	12	10	5	0	3	131

TABLE-3.4.7

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Mgt-R&D	---	---	34,813	45,000	48,000	55,000	63,500	69,600	64,750	66,750	61,500	60,000	- 75th %-ile
	---	---	33,500	39,500	42,000	46,900	52,000	57,700	54,500	55,200	51,000	47,300	- Median
	---	---	29,375	34,125	38,000	40,625	43,850	47,625	39,700	44,750	42,538	40,000	- 25th %-ile
	---	---	32,625	41,212	44,375	49,069	54,170	61,987	56,508	59,911	51,742	51,434	- Mean
	---	---	3,420	9,571	10,975	14,439	16,563	24,640	23,712	26,043	16,535	19,188	- Std. Dev.
	0	0	6	64	128	116	69	100	56	48	32	619	- Count
Basic research	---	---	33,000	36,150	42,575	45,500	48,500	47,000	58,050	66,500	41,500	43,190	
	---	31,000	30,250	33,550	37,750	42,000	43,000	45,000	48,000	56,000	32,500	36,000	
	---	---	28,700	29,425	32,250	37,575	38,000	38,750	41,125	43,160	29,050	30,600	
	---	31,000	31,150	33,134	38,119	42,887	43,390	43,495	50,606	56,237	37,529	38,107	
	---	---	3,944	5,530	8,168	9,410	10,021	7,840	10,873	14,904	12,390	9,836	
	0	1	68	92	68	54	39	29	16	7	18	392	
Applied R&D	---	---	32,000	36,000	40,000	45,000	47,230	50,000	50,500	47,075	39,800	41,470	
	---	---	30,000	32,000	36,000	39,000	38,813	43,000	45,250	41,660	35,140	35,280	
	---	---	28,100	30,000	31,572	33,800	34,488	38,000	38,700	37,958	30,000	31,000	
	---	---	30,981	32,788	36,012	40,030	40,984	43,901	45,655	43,079	35,849	37,140	
	---	---	12,852	5,041	6,354	8,512	8,981	9,947	10,422	9,610	8,417	9,830	
	0	0	137	214	183	119	92	100	49	40	36	970	
Mgt Non-R&D	---	---	---	46,116	40,500	63,520	71,500	75,000	70,000	70,500	52,500	67,500	
	---	---	25,376	37,500	34,200	44,250	56,000	60,250	57,000	55,000	35,000	53,500	
	---	---	---	30,500	26,000	38,000	44,000	49,875	45,000	48,930	34,000	40,000	
	---	---	25,376	38,146	33,175	50,526	65,451	67,787	61,013	64,980	41,600	57,976	
	---	---	---	10,215	7,972	16,197	35,032	28,214	22,004	33,703	9,990	27,999	
	0	0	1	5	8	10	17	22	15	14	5	97	
Marketing	---	---	---	42,070	48,750	55,000	52,500	52,500	47,000	64,790	38,913	48,250	
	---	---	31,000	35,200	38,680	45,000	45,000	45,360	41,000	48,000	34,375	40,360	
	---	---	---	29,225	32,750	36,000	36,480	37,500	39,800	41,500	19,375	35,000	
	---	---	31,000	36,005	39,585	48,100	44,490	50,195	42,600	52,116	30,888	42,662	
	---	---	1,414	8,109	8,668	13,008	8,365	18,765	3,857	12,601	11,003	12,880	
	0	0	2	12	16	7	9	13	3	5	4	71	
Prod & QC	---	---	34,250	36,000	40,220	44,444	---	52,500	54,078	90,750	31,200	44,700	
	---	---	28,300	32,000	38,200	35,500	60,250	40,080	46,150	48,000	29,000	35,500	
	---	---	26,500	25,600	30,000	31,500	---	34,150	28,375	31,500	27,000	29,568	
	---	---	29,600	32,140	37,049	38,617	60,250	41,951	42,019	58,500	29,067	38,679	
	---	---	3,997	8,382	7,293	13,735	13,789	15,246	17,777	41,563	2,101	16,520	
	0	0	6	13	14	10	2	9	6	5	3	68	
Forensic	---	---	31,000	35,500	37,500	46,300	---	50,300	---	---	---	40,000	
	---	---	29,390	28,800	32,000	40,000	43,600	49,000	63,000	38,000	33,000	32,700	
	---	---	26,825	24,380	27,200	36,000	---	44,250	---	---	---	27,700	
	---	---	29,110	29,579	31,543	40,767	43,600	47,850	63,000	38,000	33,000	35,329	
	---	---	2,870	5,286	5,891	5,193	---	3,400	21,213	---	8,485	10,725	
	0	0	8	9	7	3	1	4	2	1	2	37	
Writing/ editing	---	---	---	---	---	---	---	53,000	---	---	---	51,050	
	---	---	31,000	---	---	30,000	55,200	48,500	42,500	43,000	---	43,000	
	---	---	---	---	---	---	---	40,000	---	---	---	37,750	
	---	---	31,000	---	---	30,000	55,200	47,167	42,500	43,000	---	44,090	
	---	---	---	---	---	---	6,788	6,602	707	---	---	9,340	
	0	0	1	0	0	1	2	3	2	1	0	10	
Data Proc	---	---	---	37,000	---	---	---	---	---	---	---	38,200	
	---	---	34,100	32,460	---	28,500	---	---	---	---	27,300	31,030	
	---	---	---	21,000	---	---	---	---	---	---	---	22,575	
	---	---	34,100	30,153	---	28,500	---	---	---	---	27,300	30,370	
	---	---	6,364	8,246	---	16,263	---	---	---	---	---	8,327	
	0	0	2	3	0	2	0	0	0	0	1	8	
Consulting	---	---	---	---	48,000	---	---	---	---	---	---	47,450	
	---	---	---	70,000	39,050	42,500	43,000	46,080	---	21,250	25,000	37,780	
	---	---	---	---	31,525	---	---	---	---	---	---	29,500	
	---	---	---	70,000	39,525	42,500	43,000	46,080	---	21,250	25,000	38,626	
	---	---	---	---	8,530	5,798	---	12,615	---	19,445	4,243	15,013	
	0	0	0	1	4	2	1	2	0	2	2	14	
Other	---	---	---	45,000	45,125	58,650	107,250	55,200	---	60,000	---	55,000	
	---	24,840	29,300	36,000	30,430	50,000	55,740	38,400	52,500	48,000	---	41,000	
	---	---	---	29,375	26,715	36,000	32,745	32,625	---	41,000	---	31,500	
	---	24,840	29,300	36,792	34,090	47,860	65,245	42,075	52,500	49,667	---	45,313	
	---	---	---	7,843	10,562	11,623	41,044	12,539	3,536	9,609	---	19,554	
	0	1	1	3	4	5	4	4	2	3	0	27	
No Response	---	---	35,780	42,200	49,350	54,000	57,500	52,500	---	61,125	120,000	51,500	
	---	---	30,874	35,100	42,500	44,000	50,000	45,500	72,000	54,000	100,000	44,000	
	---	---	28,325	30,875	33,029	35,076	42,500	35,000	---	43,500	32,000	33,058	
	---	---	31,648	35,742	41,831	44,517	48,614	44,100	72,000	52,750	80,800	45,476	
	---	---	3,615	6,206	8,796	12,112	9,553	8,792	---	9,746	46,187	18,242	
	0	0	6	10	20	9	7	5	1	6	5	69	
TOTAL	---	---	32,000	37,125	43,000	48,877	53,000	59,500	60,000	60,000	49,125	48,000	
	---	27,920	30,000	33,500	38,000	42,450	45,000	48,000	48,000	49,750	37,620	39,000	
	---	---	28,500	30,000	33,000	36,875	38,000	40,000	40,000	40,000	30,195	32,188	
	---	27,920	30,986	34,361	39,008	44,183	47,870	52,184	51,936	53,366	42,480	42,392	
	---	4,356	10,047	7,225	9,176	12,289	17,099	20,465	18,701	23,278	18,639	16,114	
	0	2	238	426	452	338	243	291	152	132	108	2,382	

TABLE-3.4.8

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--MEN Only
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Mgt-R&D	---	---	33,750	45,600	48,250	55,000	63,750	68,400	65,000	66,750	62,000	60,000	- 75th %-ile
	---	---	31,500	39,900	42,000	46,500	52,000	57,000	55,000	55,200	51,000	48,000	- Median
	---	---	28,125	34,500	37,530	40,350	44,075	47,500	39,900	44,750	42,800	40,000	- 25th %-ile
	---	---	31,125	41,756	44,380	48,581	54,416	61,603	57,119	59,911	52,218	51,634	- Mean
	---	---	2,955	9,701	11,252	13,615	16,559	24,463	23,855	26,043	16,594	19,164	- Std. Dev.
	0	0	4	59	121	113	68	99	54	48	31	597	- Count
Basic research	---	---	33,385	36,625	42,800	47,000	48,575	47,000	58,050	66,500	42,500	44,000	
	---	---	30,450	34,000	38,000	42,000	43,000	45,000	48,000	56,000	33,675	36,800	
	---	---	29,000	29,700	32,550	39,000	38,025	38,750	41,125	43,160	29,400	31,000	
	---	---	31,295	33,426	38,267	43,500	43,684	43,495	50,606	56,237	38,596	38,614	
	---	---	4,057	5,635	8,253	9,308	10,066	7,840	10,873	14,904	12,765	9,948	
	0	0	58	85	65	51	36	29	16	7	16	363	
Applied R&D	---	---	32,000	36,000	40,200	45,000	46,960	50,000	50,750	47,075	39,700	41,800	
	---	---	30,000	32,000	36,000	39,500	38,505	43,000	45,375	41,660	35,280	35,700	
	---	---	28,000	30,000	31,990	34,000	34,525	38,000	39,090	37,958	30,000	31,000	
	---	---	31,144	32,785	36,037	40,203	41,029	44,071	46,262	43,079	35,881	37,313	
	---	---	13,493	5,079	6,093	8,579	8,953	10,120	9,616	9,610	8,403	9,913	
	0	0	124	204	171	111	89	95	48	40	33	915	
Mgt Non-R&D	---	---	---	50,424	40,500	63,520	75,000	75,000	70,000	70,500	52,500	68,310	
	---	---	---	37,500	34,200	44,250	56,000	60,250	57,000	55,000	35,000	54,000	
	---	---	---	34,875	26,000	38,000	44,000	49,875	45,000	48,930	34,000	40,000	
	---	---	---	40,933	33,175	50,526	68,244	67,787	61,013	64,980	41,600	58,949	
	---	---	---	9,346	7,972	16,197	36,489	28,214	22,004	33,703	9,990	28,127	
	0	0	0	4	8	10	15	22	15	14	5	93	
Marketing	---	---	---	44,070	49,000	55,000	52,500	52,500	47,000	64,790	39,800	49,000	
	---	---	31,000	35,700	39,360	45,000	45,000	45,360	41,000	48,000	36,250	42,000	
	---	---	---	33,725	32,500	36,000	36,480	37,500	39,800	41,500	32,500	35,000	
	---	---	31,000	38,006	39,837	48,100	44,490	50,195	42,600	52,116	36,183	43,675	
	---	---	1,414	7,188	8,911	13,008	8,365	18,765	3,857	12,601	3,650	12,406	
	0	0	2	10	15	7	9	13	3	5	3	67	
Prod & QC	---	---	34,250	36,000	40,740	44,444	---	52,500	54,078	90,750	---	46,374	
	---	---	28,300	33,000	38,700	35,500	60,250	40,080	46,150	48,000	29,100	36,000	
	---	---	26,500	27,000	30,500	31,500	---	34,150	28,375	31,500	---	30,000	
	---	---	29,600	33,938	37,890	38,617	60,250	41,951	42,019	58,500	29,100	39,566	
	---	---	3,997	7,783	7,135	13,735	13,789	15,246	17,777	41,563	2,970	16,769	
	0	0	6	11	12	10	2	9	6	5	2	63	
Forensic	---	---	30,250	36,000	37,500	46,300	---	50,300	---	---	---	42,250	
	---	---	29,000	28,800	32,000	40,000	43,600	49,000	63,000	38,000	33,000	34,350	
	---	---	25,050	24,960	27,200	36,000	---	44,250	---	---	---	27,450	
	---	---	27,920	29,673	31,543	40,767	43,600	47,850	63,000	38,000	33,000	36,107	
	---	---	2,821	5,118	5,891	5,193	---	3,400	21,213	---	8,485	11,246	
	0	0	5	7	7	3	1	4	2	1	2	32	
Writing/ editing	---	---	---	---	---	---	---	---	---	---	---	52,350	
	---	---	---	---	---	30,000	55,200	50,750	42,500	43,000	---	45,750	
	---	---	---	---	---	---	---	---	---	---	---	42,250	
	---	---	---	---	---	30,000	55,200	50,750	42,500	43,000	---	46,238	
	---	---	---	---	---	---	6,788	3,182	707	---	---	8,946	
	0	0	0	0	0	1	2	2	2	1	0	8	
Data Proc	---	---	---	37,000	---	---	---	---	---	---	---	38,600	
	---	---	34,100	32,460	---	28,500	---	---	---	---	---	32,460	
	---	---	---	21,000	---	---	---	---	---	---	---	21,000	
	---	---	34,100	30,153	---	28,500	---	---	---	---	---	30,809	
	---	---	6,364	8,246	---	16,263	---	---	---	---	---	8,894	
	0	0	2	3	0	2	0	0	0	0	0	7	
Consulting	---	---	---	---	---	---	---	---	---	---	---	50,000	
	---	---	---	70,000	40,000	42,500	43,000	46,080	---	21,250	22,000	38,400	
	---	---	---	---	---	---	---	---	---	---	---	30,000	
	---	---	---	70,000	40,000	42,500	43,000	46,080	---	21,250	22,000	39,515	
	---	---	---	---	14,142	5,798	---	12,615	---	19,445	---	16,706	
	0	0	0	1	2	2	1	2	0	2	1	11	
Other	---	---	---	---	45,125	58,650	107,250	55,200	---	60,000	---	55,575	
	---	24,840	29,300	40,500	30,430	50,000	55,740	38,400	52,500	48,000	---	43,000	
	---	---	---	---	26,715	36,000	32,745	32,625	---	41,000	---	31,875	
	---	24,840	29,300	40,500	34,090	47,860	65,245	42,075	52,500	49,667	---	45,926	
	---	---	---	6,364	10,562	11,623	41,044	12,539	3,536	9,609	---	19,675	
	0	1	1	2	4	8	8	4	2	3	0	26	
No Response	---	---	35,780	39,300	49,800	55,500	57,500	52,500	---	61,125	120,000	52,125	
	---	---	30,874	34,200	40,000	45,750	50,000	45,500	72,000	54,000	100,000	43,250	
	---	---	28,325	30,250	33,000	39,989	42,500	35,000	---	43,500	32,000	33,087	
	---	---	31,648	34,702	41,585	46,144	48,614	44,100	72,000	52,750	80,800	45,678	
	---	---	3,615	5,583	8,967	11,851	9,553	8,792	---	9,746	46,187	18,575	
	0	0	6	9	19	8	7	5	1	6	5	66	
TOTAL	---	---	32,046	37,200	43,000	49,000	53,400	59,650	60,000	60,000	51,250	48,000	
	---	24,840	30,031	34,000	38,050	42,780	45,000	48,000	48,000	49,750	39,000	39,686	
	---	---	28,300	30,100	33,000	37,000	38,000	40,000	40,000	40,000	32,375	33,000	
	---	24,840	31,097	34,611	39,068	44,277	48,151	52,261	52,334	53,366	43,746	42,824	
	---	---	10,693	7,287	9,240	11,921	17,291	20,441	18,571	23,278	18,962	16,255	
	0	1	208	395	424	323	234	284	149	132	98	2,248	

TABLE-3.4.9

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--WOMEN Only
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Mgt-R&D	---	---	---	39,140	44,898	---	---	---	---	---	---	44,847 - 75th %-ile
	---	---	35,625	36,000	43,680	54,000	37,440	100,000	40,000	---	37,000	38,640 - Median
	---	---	---	29,850	39,250	---	---	---	---	---	---	35,500 - 25th %-ile
	---	---	35,625	34,796	42,395	54,000	37,440	100,000	40,000	---	37,000	42,536 - Mean
	---	---	2,298	4,734	2,920	---	---	---	14,142	---	---	15,769 - Std. Dev.
	0	0	2	5	5	1	1	1	2	0	1	18 - Count
Basic research	---	---	32,025	30,000	42,000	55,000	---	---	---	---	---	32,550
	---	31,000	29,500	29,224	32,700	33,000	36,750	---	---	---	29,000	30,000
	---	---	28,425	29,000	30,050	29,400	---	---	---	---	---	28,625
	---	31,000	30,310	29,593	34,917	32,467	36,750	---	---	---	29,000	31,247
	---	---	3,268	1,868	6,276	2,838	13,081	---	---	---	1,414	4,424
	0	1	10	7	3	3	2	0	0	0	2	28
Applied R&D	---	---	30,400	37,050	38,000	38,650	---	38,052	---	---	47,000	37,100
	---	---	29,940	32,720	34,500	33,258	33,500	38,000	16,500	---	33,000	31,700
	---	---	28,800	28,950	29,500	30,825	---	37,316	---	---	26,500	28,900
	---	---	29,428	32,852	33,412	34,336	33,500	37,789	16,500	---	35,500	32,408
	---	---	1,684	4,417	6,123	5,304	9,192	411	---	---	10,476	5,685
	0	0	13	10	11	6	2	3	1	0	3	49
Mgt Non-R&D	---	---	---	---	---	---	---	---	---	---	---	44,000
	---	---	25,376	27,000	---	---	44,000	---	---	---	---	27,000
	---	---	---	---	---	---	---	---	---	---	---	25,376
	---	---	25,376	27,000	---	---	44,000	---	---	---	---	32,125
	---	---	---	---	---	---	---	---	---	---	---	10,316
	0	0	1	1	0	0	1	0	0	0	0	3
Marketing	---	---	---	---	---	---	---	---	---	---	---	34,100
	---	---	---	26,000	35,800	---	---	---	---	---	15,000	26,000
	---	---	---	---	---	---	---	---	---	---	---	17,000
	---	---	---	26,000	35,800	---	---	---	---	---	15,000	25,700
	---	---	---	4,243	---	---	---	---	---	---	---	8,845
	0	0	0	2	1	0	0	0	0	0	1	4
Prod & QC	---	---	---	---	---	---	---	---	---	---	---	33,500
	---	---	---	22,250	32,000	---	---	---	---	---	29,000	26,000
	---	---	---	---	---	---	---	---	---	---	---	22,250
	---	---	---	22,250	32,000	---	---	---	---	---	29,000	27,500
	---	---	---	2,475	8,485	---	---	---	---	---	---	6,633
	0	0	0	2	2	0	0	0	0	0	1	5
Forensic	---	---	33,000	---	---	---	---	---	---	---	---	34,000
	---	---	31,000	29,250	---	---	---	---	---	---	---	31,000
	---	---	29,280	---	---	---	---	---	---	---	---	26,390
	---	---	31,093	29,250	---	---	---	---	---	---	---	30,356
	---	---	1,862	8,132	---	---	---	---	---	---	---	4,391
	0	0	3	2	0	0	0	0	0	0	0	5
Writing/ editing	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	31,000	---	---	---	---	40,000	---	---	---	35,500
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	31,000	---	---	---	---	40,000	---	---	---	35,500
	---	---	---	---	---	---	---	---	---	---	---	6,364
	0	0	1	0	0	0	0	1	0	0	0	2
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	27,300	27,300
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	27,300	27,300
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	0	0	0	1	1
Consulting	---	---	---	---	---	---	---	---	---	---	---	42,000
	---	---	---	---	39,050	---	---	---	---	---	28,000	36,100
	---	---	---	---	---	---	---	---	---	---	---	28,000
	---	---	---	---	39,050	---	---	---	---	---	28,000	35,367
	---	---	---	---	4,172	---	---	---	---	---	---	7,029
	0	0	0	0	2	0	0	0	0	0	1	3
Other	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	29,375	---	---	---	---	---	---	---	29,375
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	29,375	---	---	---	---	---	---	---	29,375
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	1	0	0	0	0	0	0	0	1
No Response	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	45,100	---	---	---	---	---	---	---	45,100
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	45,100	---	---	---	---	---	---	---	45,100
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	1	0	0	0	0	0	0	0	1
TOTAL	---	---	31,850	35,000	41,375	38,650	44,500	70,000	50,000	---	34,000	37,258
	---	31,000	30,000	29,700	35,950	33,258	38,720	38,052	30,000	---	28,500	31,000
	---	---	28,725	27,600	30,013	31,350	27,375	37,658	16,500	---	27,100	29,000
	---	31,000	30,219	31,165	35,923	35,742	36,990	50,674	32,167	---	30,080	33,299
	---	---	2,849	5,545	6,288	7,704	8,117	27,592	16,855	---	8,168	8,935
	0	1	30	31	24	10	6	5	3	0	10	120

TABLE-3.5.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Biochemistry	---	20,475	---	31,000	---	47,000	---	---	---	---	---	31,000	= 75th %-tile
	---	16,650	20,400	28,000	---	40,000	---	---	---	32,750	---	27,600	= Median
	---	13,938	---	27,600	---	30,000	---	---	---	---	---	16,800	= 25th %-tile
	---	17,692	20,400	28,867	---	39,000	---	---	---	32,750	---	26,377	= Mean
	---	4,755	---	1,858	---	8,544	---	---	---	5,303	---	9,857	= Std. Dev.
	0	6	1	3	0	3	0	0	0	2	0	15	= Count
Agricultural/food chemistry	---	21,125	23,200	32,750	38,600	34,165	42,250	50,000	62,500	46,750	---	38,050	
	24,100	17,958	21,300	28,327	33,600	29,000	38,950	40,344	43,000	30,650	21,600	29,000	
	---	14,670	17,650	21,750	28,500	21,500	30,885	32,000	30,900	25,075	---	21,450	
	24,100	18,005	21,469	27,357	33,560	30,013	37,073	45,880	45,960	35,067	21,600	31,445	
	---	3,471	6,685	5,883	5,158	9,509	6,087	21,278	20,147	11,981	---	15,289	
	1	12	13	8	5	10	6	15	5	6	1	82	
Analytical	20,595	22,011	25,263	32,000	35,450	36,400	35,500	42,530	38,750	46,675	39,540	32,190	
	17,000	19,700	22,200	26,900	32,000	30,800	30,000	32,880	31,180	34,000	27,000	25,000	
	14,900	16,800	19,455	23,000	26,000	27,900	26,700	26,916	24,375	25,545	23,774	21,000	
	17,320	19,766	23,008	28,161	31,748	32,902	32,893	36,103	34,468	38,104	30,135	27,941	
	3,038	4,620	5,229	7,320	7,062	10,878	12,686	13,951	15,307	14,174	8,329	10,955	
	13	85	132	71	47	43	43	57	32	18	3	544	
Environmental chemistry	17,625	21,950	26,125	32,700	38,250	49,600	36,375	42,500	40,000	56,100	---	35,200	
	15,966	20,000	22,900	26,900	31,200	35,964	27,048	36,050	31,000	41,000	25,000	26,900	
	14,621	17,200	18,875	20,625	25,250	30,000	23,900	32,670	28,000	36,000	---	21,000	
	16,071	19,884	22,747	27,105	34,408	39,052	29,466	48,547	35,786	45,744	25,000	30,915	
	1,557	3,394	4,726	7,245	13,564	11,752	8,259	47,882	10,488	15,766	0	21,336	
	4	16	32	9	13	7	6	16	7	9	2	121	
Organic chemistry	---	21,888	26,963	29,938	39,590	45,000	45,000	40,000	51,850	44,700	---	40,000	
	17,950	20,080	23,348	27,750	31,300	39,500	37,000	35,000	45,938	38,000	---	30,550	
	---	18,840	20,000	23,025	24,732	34,000	34,000	28,000	36,060	32,000	---	24,000	
	17,950	20,970	25,232	28,110	34,044	40,248	40,250	36,507	44,743	38,966	---	33,133	
	636	4,043	9,540	7,239	11,772	9,631	13,075	14,142	8,351	9,539	---	12,439	
	2	20	23	32	21	15	15	43	12	17	0	200	
Pharmaceutical/ medicinal/ clinical chemistry	---	20,000	24,550	32,763	34,125	36,591	42,750	44,000	49,000	---	---	35,000	
	23,600	18,000	22,000	27,000	28,300	30,800	34,500	40,000	42,750	62,500	---	27,000	
	---	17,000	17,400	24,145	25,125	26,800	29,723	32,000	31,500	---	---	21,375	
	23,600	18,096	21,676	28,507	30,263	34,222	36,879	38,947	40,313	62,500	---	29,656	
	---	3,050	5,427	6,194	7,992	12,672	9,603	11,981	9,270	38,891	---	11,968	
	1	19	29	21	20	17	14	15	8	2	0	146	
Physical chemistry	---	21,250	25,400	35,500	30,425	44,400	---	62,500	63,750	63,750	---	39,000	
	17,900	19,750	23,424	30,000	28,600	38,000	38,500	42,650	55,200	51,100	---	28,825	
	---	17,471	19,960	22,040	20,250	26,950	---	29,913	33,600	36,050	---	20,350	
	17,900	19,383	23,437	30,470	26,425	36,140	38,500	49,158	50,850	50,300	---	32,671	
	---	2,102	4,346	8,137	5,856	9,237	707	26,247	16,394	14,623	---	16,082	
	1	10	9	7	4	5	2	6	4	4	0	52	
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---	
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	0	0	0	0	0	0	0	0	0	0	0	0	
Polymer/ macromolecular chemistry	22,320	22,000	26,784	33,975	44,900	39,000	46,500	50,000	60,000	53,750	---	41,350	
	20,000	20,160	22,990	29,450	32,450	32,232	39,672	41,500	48,000	45,000	32,280	30,000	
	16,000	18,500	19,950	27,225	27,955	29,000	30,250	34,328	39,500	31,574	---	23,492	
	19,960	20,880	23,208	31,545	35,888	33,406	39,000	46,136	51,197	45,204	32,280	34,395	
	5,540	3,612	4,959	6,175	12,018	6,023	10,775	27,861	23,707	18,325	---	18,151	
	7	29	42	26	26	15	23	44	15	13	1	241	
Other chemistry	26,450	25,500	26,800	37,875	35,075	42,500	47,750	47,000	63,000	48,000	---	39,495	
	21,240	20,500	23,500	27,940	32,000	34,495	38,450	36,000	37,500	36,000	---	30,100	
	17,800	17,500	20,000	22,763	22,633	28,500	34,375	30,000	32,000	32,000	---	23,167	
	22,316	21,765	24,144	31,118	32,639	36,030	42,455	41,145	48,978	38,200	---	33,778	
	6,220	6,102	5,163	9,814	15,025	10,682	14,783	18,237	29,503	8,827	---	16,259	
	9	31	41	28	24	28	26	47	19	11	0	264	
TOTAL	21,293	22,000	25,850	33,000	36,875	39,600	41,700	45,000	49,625	47,425	32,280	36,000	
	18,000	19,855	22,500	28,000	31,380	32,232	35,000	36,300	38,500	38,250	25,000	28,000	
	16,000	17,242	19,775	23,630	25,500	28,700	29,000	30,000	29,000	31,825	23,774	22,000	
	19,250	19,990	23,134	29,033	32,810	34,835	37,122	40,888	42,594	41,097	27,742	31,097	
	4,755	4,456	5,662	7,412	10,687	10,499	12,515	22,202	19,902	14,331	6,176	14,810	
	38	228	322	205	160	143	135	243	102	82	7	1,665	

TABLE-3.5.2

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY--MEN Only
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Biochemistry	---	---	---	31,000	---	47,000	---	---	---	---	---	39,125	- 75th %-ile
	---	---	---	28,000	---	40,000	---	---	---	32,750	---	30,500	- Median
	---	---	---	27,600	---	30,000	---	---	---	---	---	28,250	- 25th %-ile
	---	---	---	28,867	---	39,000	---	---	---	32,750	---	33,638	- Mean
	---	---	---	1,858	---	8,544	---	---	---	5,303	---	6,940	- Std. Dev.
	0	0	0	3	0	3	0	0	0	2	0	8	- Count
Agricultural/food chemistry	---	21,500	23,300	33,000	38,600	44,000	42,250	50,000	62,500	46,750	---	40,000	
	24,100	17,916	21,650	29,000	33,600	30,000	38,950	40,344	43,000	30,650	---	30,000	
	---	14,100	19,775	21,000	28,500	28,000	30,885	32,000	30,900	25,075	---	22,000	
	24,100	17,851	21,942	27,314	33,560	32,463	37,073	45,880	45,960	35,067	---	32,278	
	---	3,597	6,752	6,553	5,158	10,055	6,087	21,278	20,147	11,981	---	15,668	
	1	11	12	7	5	7	6	15	5	6	0	75	
Analytical	19,500	22,450	25,242	32,575	36,000	36,775	35,875	43,000	43,875	50,025	39,540	34,000	
	17,000	19,392	22,600	27,125	32,750	31,500	30,600	35,195	31,930	34,220	27,000	27,125	
	14,710	17,100	19,400	23,490	29,150	28,775	27,150	27,081	26,500	32,000	23,774	22,000	
	17,084	20,050	23,119	28,985	32,730	33,887	33,530	36,872	36,463	39,906	30,105	29,347	
	3,050	5,150	5,295	7,291	7,060	10,613	12,842	14,320	16,789	14,015	8,329	11,510	
	5	57	97	62	40	40	40	52	24	16	3	436	
Environmental chemistry	---	22,000	26,500	32,700	37,000	49,600	32,616	42,500	40,000	56,100	---	36,600	
	15,432	20,000	22,000	26,900	31,200	35,964	27,048	36,050	31,000	41,000	25,000	28,992	
	---	17,400	20,000	20,625	25,500	30,000	21,408	32,670	28,000	36,000	---	22,000	
	15,432	20,084	23,091	27,105	34,800	39,052	27,024	48,547	35,786	45,744	25,000	32,773	
	---	2,999	4,786	7,245	14,462	11,752	5,832	47,882	10,488	15,766	0	22,936	
	1	10	23	9	11	7	4	16	7	9	2	99	
Organic chemistry	---	25,725	28,525	30,000	39,590	47,500	45,000	41,000	52,800	46,050	---	40,000	
	18,400	20,230	22,924	28,000	31,300	39,500	37,000	35,000	48,000	38,250	---	32,000	
	---	18,725	20,000	23,100	24,732	35,000	34,000	28,500	36,240	33,180	---	24,960	
	18,400	21,569	25,398	28,352	34,044	40,877	40,250	36,874	45,629	39,777	---	33,921	
	---	4,616	10,602	7,225	11,772	9,915	13,075	14,387	8,146	8,115	---	12,555	
	1	14	20	31	21	13	15	41	11	16	0	183	
Pharmaceutical/ medicinal/ clinical chemistry	---	21,500	24,400	33,494	37,000	35,796	44,250	44,250	46,000	---	---	37,000	
	23,600	18,720	23,000	29,600	31,000	30,950	34,000	40,650	40,500	62,500	---	29,560	
	---	17,950	17,838	23,481	27,000	29,165	29,168	32,525	30,000	---	---	23,331	
	23,600	18,591	22,181	28,302	31,744	33,479	37,249	40,657	38,929	62,500	---	31,208	
	---	3,316	5,239	6,635	8,265	8,587	10,328	10,360	9,076	38,891	---	11,772	
	1	11	18	18	15	14	12	14	7	2	0	112	
Physical chemistry	---	20,000	28,500	35,500	30,425	44,400	---	62,500	60,000	63,750	---	41,400	
	---	18,600	23,612	30,000	28,600	38,000	38,500	42,650	50,400	51,100	---	30,100	
	---	17,000	19,925	22,040	20,250	26,950	---	29,913	28,000	36,050	---	22,010	
	---	18,647	24,487	30,470	26,425	36,140	38,500	49,158	46,133	50,300	---	33,854	
	---	2,068	4,969	8,137	5,836	9,237	707	26,247	16,421	14,623	---	16,045	
	0	7	6	7	4	5	2	6	3	4	0	44	
Theoretical	---	---	---	---	---	---	---	---	---	---	---	---	
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	0	0	0	0	0	0	0	0	0	0	0	0	
Polymer/ macromolecular chemistry	27,750	22,000	26,856	34,125	43,025	39,150	46,875	50,000	60,000	53,750	---	43,000	
	20,500	20,230	23,000	29,750	32,450	32,616	39,836	41,500	48,000	45,000	32,280	31,900	
	18,500	18,870	19,650	28,250	27,865	29,000	32,613	34,328	39,500	31,574	---	25,000	
	22,250	21,078	23,247	32,113	34,741	35,863	39,754	46,138	51,197	45,204	32,280	35,382	
	5,315	5,946	5,208	6,086	10,155	5,974	10,388	27,861	23,707	18,325	---	18,393	
	4	22	37	24	24	14	22	44	15	13	1	220	
Other Chemical	29,500	27,250	27,370	38,740	35,050	44,500	48,500	47,000	63,500	48,000	---	40,000	
	18,600	22,000	24,500	27,680	34,000	34,995	38,800	36,000	43,000	36,000	---	32,000	
	17,800	17,600	20,750	23,175	22,705	30,000	35,000	30,000	32,063	32,000	---	24,930	
	22,640	22,748	24,710	31,696	33,320	37,684	43,110	41,145	51,123	38,200	---	35,126	
	7,380	6,192	5,393	9,894	15,636	10,275	14,698	18,237	30,449	8,827	---	16,629	
	5	25	34	25	21	24	25	47	17	11	0	234	
TOTAL	23,700	22,000	26,400	33,394	37,100	40,000	42,000	45,000	50,000	47,500	34,095	38,100	
	18,500	20,000	23,000	28,000	32,000	33,000	35,660	36,504	40,000	40,000	26,000	30,000	
	17,450	17,700	20,000	24,000	26,260	29,500	30,000	30,000	30,000	32,000	24,694	23,000	
	20,508	20,442	23,447	29,482	33,263	35,688	37,713	41,371	43,880	41,729	28,766	32,547	
	5,347	4,843	5,901	7,456	10,542	9,849	12,591	22,396	20,472	14,219	6,080	15,293	
	18	157	247	186	141	127	126	235	89	79	6	1,411	

TABLE-3.5.3

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--WOMEN Only
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Biochemistry	---	20,475	---	---	---	---	---	---	---	---	---	20,400	- 75th %-ile
	---	16,650	20,400	---	---	---	---	---	---	---	---	16,800	- Median
	---	13,938	---	---	---	---	---	---	---	---	---	14,000	- 25th %-ile
	---	17,692	20,400	---	---	---	---	---	---	---	---	18,079	- Mean
	---	4,755	---	---	---	---	---	---	---	---	---	4,459	- Std. Dev.
	0	6	1	0	0	0	0	0	0	0	0	7	- Count
Agricultural/ food chemistry	---	---	---	---	---	30,887	---	---	---	---	---	27,654	
	---	19,700	15,800	27,654	---	22,000	---	---	---	---	21,600	21,600	
	---	---	---	---	---	20,000	---	---	---	---	---	19,700	
	---	19,700	15,800	27,654	---	24,296	---	---	---	---	21,600	22,520	
	---	---	---	---	---	5,795	---	---	---	---	---	5,114	
	0	1	1	1	0	3	0	0	0	0	1	7	
Analytical chemistry	20,690	21,631	25,400	26,650	29,000	22,080	---	31,000	33,000	---	---	24,550	
	18,300	20,000	21,500	23,000	24,500	21,000	25,610	31,000	25,500	23,690	---	21,500	
	14,000	16,698	20,000	17,735	23,000	16,200	---	24,000	21,840	---	---	19,000	
	17,677	19,336	22,702	22,483	26,131	19,760	25,610	28,667	27,406	23,690	---	22,198	
	3,430	3,371	5,108	4,685	3,888	3,130	9,348	4,041	7,461	1,146	---	5,308	
	7	26	35	9	7	3	2	3	7	2	0	101	
Environmental chemistry	18,000	22,725	25,700	---	---	---	---	---	---	---	---	25,275	
	16,500	20,250	23,800	---	32,250	---	34,350	---	---	---	---	21,650	
	14,350	14,875	18,050	---	---	---	---	---	---	---	---	17,325	
	16,283	19,550	21,867	---	32,250	---	34,350	---	---	---	---	22,552	
	1,835	4,261	4,728	---	10,253	---	12,940	---	---	---	---	7,533	
	3	6	9	0	2	0	2	0	0	0	0	22	
Organic chemistry	---	21,138	26,963	---	---	---	---	---	---	---	---	26,963	
	17,300	19,884	26,000	20,600	---	29,820	---	29,000	---	26,000	---	21,000	
	---	18,140	19,400	---	---	---	---	---	---	---	---	19,400	
	17,500	19,573	24,121	20,600	---	29,820	---	29,000	---	26,000	---	22,781	
	---	1,841	4,117	---	---	---	---	1,414	---	---	---	4,550	
	1	6	3	1	0	1	0	2	0	1	0	15	
Pharmaceutial/ medicinal/ clinical chemistry	---	19,500	24,900	32,200	31,050	---	---	---	---	---	---	27,300	
	---	17,111	18,300	30,000	25,000	21,537	34,660	15,000	50,000	---	---	21,000	
	---	16,250	16,000	27,000	21,000	---	---	---	---	---	---	17,000	
	---	17,419	20,850	29,733	25,820	21,537	34,660	15,000	50,000	---	---	23,163	
	---	2,701	5,882	2,610	5,605	1,079	3,762	---	---	---	---	8,095	
	0	8	11	3	5	2	2	1	1	0	0	33	
Physical chemistry	---	22,000	23,592	---	---	---	---	---	---	---	---	22,000	
	17,900	21,000	20,500	---	---	---	---	---	---	---	---	20,500	
	---	20,300	19,920	---	---	---	---	---	---	---	---	19,920	
	17,900	21,100	21,337	---	---	---	---	---	---	---	---	20,745	
	---	854	1,974	---	---	---	---	---	---	---	---	1,769	
	1	3	3	0	0	0	0	0	0	0	0	7	
Theoretical	---	---	---	---	---	---	---	---	---	---	---	---	
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	0	0	0	0	0	0	0	0	0	0	0	0	
Polymer/ macromolecular chemistry	22,320	23,000	25,500	---	---	---	---	---	---	---	---	24,738	
	16,000	20,000	22,980	24,738	49,650	27,000	22,400	---	---	---	---	22,400	
	12,400	18,500	20,325	---	---	---	---	---	---	---	---	19,250	
	16,907	20,257	22,926	24,738	49,650	27,000	22,400	---	---	---	---	24,063	
	5,022	2,403	2,799	1,043	28,779	---	---	---	---	---	---	11,245	
	3	7	5	2	2	1	1	0	0	0	0	21	
Other Chemical	27,175	20,551	24,000	---	39,600	28,000	---	---	---	---	---	25,124	
	21,620	18,775	22,000	22,200	25,000	24,000	26,070	---	30,750	---	---	22,000	
	16,935	13,188	19,000	---	19,000	16,585	---	---	---	---	---	18,250	
	21,910	17,667	21,395	22,200	27,867	22,862	26,070	---	30,750	---	---	22,413	
	5,490	3,797	2,668	8,485	10,595	5,792	---	---	9,546	---	---	6,223	
	4	6	7	2	3	3	1	0	2	0	0	28	
TOTAL	21,240	21,500	24,800	28,225	33,500	27,500	36,045	31,000	37,875	26,000	---	25,000	
	17,900	19,812	21,000	24,500	25,000	22,080	29,035	29,000	28,750	24,500	21,600	21,450	
	15,500	16,800	19,000	20,200	23,000	20,387	23,100	21,750	22,335	22,880	---	18,350	
	18,229	19,040	22,103	24,093	29,443	23,127	29,714	26,500	30,334	24,460	21,600	22,434	
	4,026	3,291	4,681	4,935	11,442	4,639	8,118	6,221	9,844	1,560	---	6,614	
	19	69	75	18	19	13	8	6	10	3	1	241	

TABLE-3.5.4

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Biochemistry	---	---	31,000	---	---	---	---	---	---	---	---	32,325 - 75th %-ile
	---	20,000	28,500	31,500	27,000	32,000	31,800	33,300	26,500	---	---	29,250 - Median
	---	---	22,500	---	---	---	---	---	---	---	---	23,750 - 25th %-ile
	---	20,000	27,100	31,500	27,000	32,000	31,800	33,300	26,500	---	---	28,636 - Mean
	---	---	4,393	10,607	---	---	2,546	---	---	---	---	5,257 - Std. Dev.
	0	1	8	2	1	1	2	1	1	0	0	14 - Cases
Agricultural/ food chemistry	---	---	22,150	34,750	60,000	42,975	62,250	36,250	60,000	55,250	60,000	43,800
	---	23,000	21,750	28,500	41,400	36,500	46,750	32,000	50,000	37,500	55,000	34,000
	---	---	18,875	20,500	25,500	32,140	30,500	30,000	19,600	31,000	26,000	23,750
	---	23,000	20,925	28,033	42,480	37,346	46,750	32,750	41,840	41,250	47,000	36,627
	---	---	1,972	8,159	22,081	6,042	16,715	3,403	20,711	13,301	18,358	15,072
	0	1	8	9	5	5	6	4	5	4	3	46
Analytical chemistry	---	23,650	27,000	31,300	40,300	36,000	43,600	46,800	48,000	52,750	40,000	36,270
	---	21,500	23,130	28,250	28,910	32,600	36,360	39,900	41,000	36,750	33,000	29,387
	---	19,125	21,000	25,000	25,625	25,600	31,685	34,100	31,500	31,785	30,630	24,000
	---	21,148	23,400	31,488	33,125	32,929	37,848	39,836	39,975	41,028	34,852	32,014
	---	2,889	3,585	28,402	11,723	8,058	8,459	7,987	13,272	12,151	5,653	16,080
	0	16	54	58	40	23	27	31	8	14	5	276
Environmental chemistry	---	25,000	28,500	33,375	38,425	61,000	75,750	53,100	---	---	51,563	38,450
	---	24,000	25,000	28,000	33,750	47,000	37,600	41,500	28,000	49,800	34,675	28,626
	---	19,500	19,000	25,086	29,064	35,750	31,000	30,950	---	---	22,025	25,000
	---	22,833	24,806	28,593	34,819	48,100	58,700	40,718	28,000	49,800	36,088	34,348
	---	2,930	6,381	6,724	9,211	14,951	59,813	11,422	---	---	15,351	20,697
	0	3	18	16	8	5	6	10	1	1	4	72
Organic Chemistry	---	25,200	27,997	30,900	42,000	39,250	45,900	52,500	53,500	51,500	48,500	42,850
	---	24,500	22,650	27,000	33,000	33,000	36,000	40,000	41,000	43,000	35,000	32,000
	---	23,000	21,880	22,963	28,100	27,500	29,880	33,000	35,575	31,660	24,250	26,000
	---	24,233	24,261	27,916	42,650	36,959	41,669	43,000	45,017	45,216	35,684	36,948
	---	1,124	4,141	6,715	41,203	15,391	19,409	12,778	14,912	19,022	11,984	20,437
	0	3	28	25	23	14	27	25	14	13	9	181
Pharmaceutical/ medicinal/ clinical chemistry	---	---	24,000	37,250	36,915	42,000	46,000	53,000	53,750	62,500	---	40,000
	---	22,000	22,000	30,500	30,050	33,000	39,264	42,000	40,750	40,000	35,000	31,000
	---	---	19,800	26,725	25,700	30,000	29,000	35,000	36,586	39,000	---	25,400
	---	22,000	22,312	46,573	33,019	36,156	39,527	44,419	44,278	47,667	35,000	37,458
	---	---	3,737	56,646	9,803	8,107	11,289	13,075	10,455	13,880	7,071	28,243
	0	1	23	26	24	7	13	17	6	6	2	125
Physical chemistry	---	---	24,450	37,125	49,500	38,250	43,000	43,750	46,000	63,000	---	42,000
	---	22,925	22,500	31,250	36,500	33,500	42,000	41,500	38,600	49,000	36,000	35,520
	---	---	21,700	26,175	35,250	28,300	40,000	32,500	30,000	35,600	---	26,350
	---	22,925	22,933	32,588	40,169	32,800	41,667	39,250	38,200	49,200	36,000	35,170
	---	2,722	1,769	7,661	7,552	7,291	1,528	6,397	8,007	13,701	---	9,664
	0	2	6	8	9	6	3	4	3	3	1	45
Theoretical	---	---	---	---	---	---	---	---	---	---	---	---
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	0	0	0	0	0	0	0	0	0	0	0	0
Polymer/ macromolecular chemistry	---	25,600	27,500	37,000	38,200	43,600	54,250	46,000	49,100	58,750	46,125	40,600
	---	25,000	25,000	32,025	35,000	37,960	40,000	36,000	36,500	48,500	36,000	34,000
	---	24,000	23,000	29,850	31,633	29,650	30,000	33,550	31,500	24,500	26,550	27,775
	---	24,867	25,085	32,356	34,237	38,483	50,927	42,902	41,723	44,667	35,783	37,326
	---	808	3,052	6,096	5,557	10,172	38,739	19,164	16,529	18,651	10,975	18,859
	0	3	25	25	21	21	21	25	11	6	6	164
Other Chemical	---	24,750	28,000	33,500	38,500	49,850	46,000	43,000	41,375	66,125	57,250	40,000
	---	23,500	24,400	29,900	32,000	37,000	40,000	35,500	36,000	44,890	39,500	32,500
	---	22,025	20,100	26,875	25,000	34,250	31,500	31,750	26,000	30,000	24,645	26,000
	---	23,425	24,808	30,669	31,143	42,310	39,254	37,367	33,813	50,485	40,043	34,441
	---	1,410	5,278	6,747	8,500	13,547	9,214	8,665	8,823	26,598	16,861	12,178
	0	4	19	22	23	10	13	30	8	8	6	143
TOTAL	---	24,500	26,643	33,300	38,625	42,375	45,925	45,000	49,050	53,000	48,375	40,000
	---	23,000	23,500	29,000	33,108	35,000	38,750	38,000	39,000	41,000	35,500	31,770
	---	20,000	21,000	25,000	27,000	30,285	30,000	33,000	31,250	32,000	28,325	25,500
	---	22,315	23,944	32,734	35,150	37,121	42,897	40,729	40,762	45,136	37,270	35,079
	---	2,608	4,208	26,861	18,549	11,188	24,064	12,290	13,959	16,920	12,124	18,762
	0	34	182	191	154	92	118	147	57	55	36	1,066

TABLE-3.5.5

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--MEN Only
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Biochemistry	---	---	28,500	---	---	---	---	---	---	---	---	33,375 - 75th %-tile
	---	20,000	23,000	31,500	27,000	32,000	33,600	33,300	---	---	---	27,750 - Median
	---	---	22,000	---	---	---	---	---	---	---	---	22,750 - 25th %-tile
	---	20,000	24,500	31,500	27,000	32,000	33,600	33,300	---	---	---	28,240 - Mean
	---	---	3,500	10,607	---	---	---	---	---	---	---	6,129 - Std. Dev.
	0	1	3	2	1	1	1	1	0	0	0	10 - Count
Agricultural/food chemistry	---	---	---	36,375	60,000	42,975	66,750	36,250	60,000	55,250	60,000	49,050
	---	---	19,750	28,750	41,400	36,500	56,500	32,000	50,000	37,500	55,000	34,500
	---	---	---	21,750	25,500	32,140	37,250	30,000	19,600	31,000	26,000	28,625
	---	---	19,750	29,038	42,480	37,346	53,500	32,750	41,840	41,250	47,000	38,278
	---	---	2,475	8,106	22,081	6,042	19,759	3,403	20,711	13,301	18,358	15,276
	0	0	2	8	5	5	4	4	5	4	3	40
Analytical chemistry	---	23,775	27,000	31,300	40,700	38,400	44,100	49,250	49,000	52,750	33,000	38,000
	---	21,000	23,880	28,500	28,470	34,000	37,500	40,000	44,000	36,750	32,000	30,000
	---	19,175	21,000	25,000	25,250	30,000	31,685	34,775	33,000	31,785	29,260	25,000
	---	21,392	23,659	32,062	33,382	34,783	38,499	40,812	43,143	41,028	31,420	33,123
	---	2,490	3,546	30,256	12,152	7,590	8,955	7,873	10,574	12,151	1,936	17,186
	0	10	39	51	37	19	23	26	7	14	3	229
Environmental chemistry	---	---	29,916	35,000	39,200	65,750	110,500	53,700	---	---	51,563	38,850
	---	21,750	25,000	28,000	35,000	42,650	35,000	45,000	28,000	49,800	34,675	32,000
	---	---	19,000	25,343	28,752	34,475	28,000	32,000	---	---	22,025	25,000
	---	21,750	25,070	29,166	35,507	47,625	62,400	42,153	28,000	49,800	36,088	35,401
	---	3,182	6,607	6,543	9,724	17,220	66,101	11,118	---	---	15,351	21,994
	0	2	13	15	7	4	5	9	1	1	4	61
Organic Chemistry	---	25,200	28,325	31,500	42,000	43,750	47,250	53,750	53,500	51,500	48,500	43,800
	---	24,500	22,650	27,000	33,000	33,000	38,400	39,950	41,000	45,000	35,000	32,748
	---	23,000	21,805	23,144	31,700	28,905	29,440	33,000	35,575	31,660	24,250	26,000
	---	24,233	24,196	28,246	35,260	38,385	42,603	43,125	45,017	45,216	35,684	36,485
	---	1,124	4,233	7,040	8,114	16,214	19,896	13,037	14,912	19,022	11,984	14,992
	0	3	26	22	19	12	25	24	14	13	9	167
Pharmaceutial/ medicinal/ clinical chemistry	---	---	24,600	38,000	37,200	45,000	46,000	61,000	59,250	62,500	---	40,000
	---	22,000	22,000	30,000	30,050	33,000	40,000	42,000	45,250	40,000	35,000	31,850
	---	---	19,800	27,000	25,450	28,746	30,000	34,000	35,056	39,000	---	25,300
	---	22,000	22,483	48,565	33,014	36,098	41,532	45,309	46,519	47,667	35,000	38,440
	---	---	3,923	60,063	10,200	9,074	11,141	13,717	12,604	13,880	7,071	30,151
	0	1	19	23	22	5	11	15	4	6	2	108
Physical chemistry	---	---	24,450	38,000	50,250	38,250	43,000	43,750	46,000	63,000	---	42,250
	---	22,925	22,500	27,100	36,750	33,300	42,000	41,500	38,600	49,000	36,000	35,260
	---	---	21,700	25,750	35,130	28,300	40,000	32,500	30,000	35,600	---	25,950
	---	22,925	22,933	31,200	40,753	32,800	41,667	39,250	38,200	49,200	36,000	35,087
	---	2,722	1,769	8,526	7,854	7,291	1,528	6,397	8,007	13,701	---	10,003
	0	2	6	6	8	6	3	4	3	3	1	42
Theoretical	---	---	---	---	---	---	---	---	---	---	---	---
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	0	0	0	0	0	0	0	0	0	0	0	0
Polymer/ macromolecular chemistry	---	25,600	27,500	37,625	38,300	43,600	54,250	46,000	49,100	58,750	46,125	41,000
	---	25,000	25,000	32,363	35,000	37,960	40,000	36,000	36,500	48,500	36,000	35,000
	---	24,000	22,900	29,925	31,617	29,650	30,000	33,550	31,500	24,500	26,550	28,000
	---	24,867	24,940	32,677	34,224	38,483	50,927	42,902	41,723	44,667	35,783	37,779
	---	808	3,208	6,380	5,701	10,172	38,739	19,164	16,529	18,651	10,975	19,213
	0	3	21	22	20	21	21	25	11	6	6	156
Other Chemical	---	25,000	28,750	32,900	39,120	50,000	46,500	42,750	41,500	66,125	57,500	42,000
	---	23,000	24,410	29,800	34,000	43,500	42,400	35,500	38,000	44,890	50,000	34,000
	---	21,700	20,250	27,750	25,000	37,000	30,750	32,125	24,000	30,000	27,580	27,258
	---	23,233	25,135	30,928	32,431	46,757	39,608	37,611	34,071	50,485	44,032	35,664
	---	1,662	5,601	7,072	7,876	13,885	9,530	8,508	9,497	26,598	15,364	12,659
	0	3	16	13	19	7	12	28	7	8	5	118
TOTAL	---	24,675	26,540	33,325	39,140	43,425	46,650	46,470	49,775	53,000	49,750	41,000
	---	23,000	23,500	28,800	33,900	35,550	40,000	38,125	39,750	41,000	35,000	32,500
	---	20,000	21,000	25,000	27,000	31,665	31,343	33,350	31,875	32,000	28,550	26,000
	---	22,491	24,010	33,423	34,392	38,043	44,160	41,192	41,684	45,136	37,625	35,852
	---	2,331	4,246	29,030	10,199	11,315	25,186	12,519	14,037	16,920	12,245	18,676
	0	25	145	162	138	80	105	136	52	95	33	951

TABLE-3.5.6

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--WOMEN Only
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Biochemistry	---	---	---	---	---	---	---	---	---	---	---	31,500	- 75th %-ile
	---	---	31,000	---	---	---	30,000	---	26,500	---	---	30,000	- Median
	---	---	---	---	---	---	---	---	---	---	---	27,375	- 25th %-ile
	---	---	31,000	---	---	---	30,000	---	26,500	---	---	29,625	- Mean
	---	---	1,414	---	---	---	---	---	---	---	---	2,287	- Std. Dev.
	0	0	2	0	0	0	1	0	1	0	0	4	- Count
Agricultural/food chemistry	---	---	---	---	---	---	---	---	---	---	---	29,625	
	---	23,000	22,100	20,000	---	---	33,250	---	---	---	---	22,600	
	---	---	---	---	---	---	---	---	---	---	---	21,500	
	---	23,000	22,100	20,000	---	---	33,250	---	---	---	---	25,617	
	---	---	141	---	---	---	10,253	---	---	---	---	7,547	
	0	1	2	1	0	0	2	0	0	0	0	6	
Analytical chemistry	---	23,750	27,000	29,600	32,500	26,125	37,260	40,500	---	---	---	29,700	
	---	22,000	22,000	26,000	29,350	24,500	36,360	38,000	17,796	---	40,000	25,000	
	---	16,363	20,800	25,000	28,000	21,750	30,800	27,400	---	---	---	21,775	
	---	20,742	22,725	27,300	29,950	24,125	34,807	34,760	17,796	---	40,000	26,496	
	---	3,684	3,721	3,400	2,309	2,323	3,499	7,259	---	---	5,657	6,813	
	0	6	15	7	3	4	3	5	1	0	2	46	
Environmental chemistry	---	---	29,000	---	---	---	---	---	---	---	---	30,000	
	---	25,000	26,000	20,000	30,000	50,000	40,200	27,800	---	---	---	27,800	
	---	---	18,300	---	---	---	---	---	---	---	---	23,000	
	---	25,000	24,120	20,000	30,000	50,000	40,200	27,800	---	---	---	28,509	
	---	---	6,424	---	---	---	---	---	---	---	---	9,733	
	0	1	5	1	1	1	1	1	0	0	0	11	
Organic chemistry	---	---	---	---	179,750	---	---	---	---	---	---	30,975	
	---	---	25,094	27,000	31,000	28,400	30,000	---	---	---	---	28,344	
	---	---	---	---	22,500	---	---	---	---	---	---	25,125	
	---	---	25,094	27,000	77,750	28,400	30,000	---	---	---	---	44,332	
	---	---	3,668	2,828	100,331	4,101	0	---	---	---	---	57,968	
	0	0	2	2	4	2	2	0	0	0	0	12	
Pharmaceutical/ medicinal/ clinical chemistry	---	---	24,000	37,000	---	---	---	---	---	---	---	37,545	
	---	---	22,000	31,000	33,080	36,300	28,500	37,750	39,795	---	---	30,600	
	---	---	18,500	25,900	---	---	---	---	---	---	---	24,950	
	---	---	21,500	31,300	33,080	36,300	28,500	37,750	39,795	---	---	31,221	
	---	---	3,000	5,556	5,063	8,061	707	354	3,118	---	---	7,388	
	0	0	4	3	2	2	2	2	2	0	0	17	
Physical chemistry	---	---	---	---	---	---	---	---	---	---	---	37,500	
	---	---	---	36,750	35,500	---	---	---	---	---	---	36,000	
	---	---	---	---	---	---	---	---	---	---	---	35,500	
	---	---	---	36,750	35,500	---	---	---	---	---	---	36,333	
	---	---	---	1,061	---	---	---	---	---	---	---	1,041	
	0	0	0	2	1	0	0	0	0	0	0	3	
Theoretical	---	---	---	---	---	---	---	---	---	---	---	---	
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	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	
Polymer/ macromolecular chemistry	---	---	28,150	33,000	---	---	---	---	---	---	---	32,250	
	---	---	25,300	30,000	34,500	---	---	---	---	---	---	28,000	
	---	---	24,100	27,000	---	---	---	---	---	---	---	25,150	
	---	---	25,850	30,000	34,500	---	---	---	---	---	---	28,488	
	---	---	2,229	3,000	---	---	---	---	---	---	---	3,850	
	0	0	4	3	1	0	0	0	0	0	0	8	
Other Chemical	---	---	26,400	36,500	32,300	---	---	---	---	---	---	33,050	
	---	24,000	22,700	37,000	27,950	29,900	35,000	33,950	32,000	---	20,100	28,400	
	---	---	20,100	24,620	14,825	---	---	---	---	---	---	24,000	
	---	24,000	23,067	30,294	25,025	29,900	35,000	33,950	32,000	---	20,100	28,365	
	---	---	3,166	6,650	9,863	2,970	---	14,071	---	---	---	7,362	
	0	1	3	9	4	2	1	2	1	0	1	24	
TOTAL	---	24,250	27,000	33,000	34,875	32,000	37,035	39,250	39,795	---	44,000	32,000	
	---	23,000	23,000	29,205	29,750	27,800	30,400	37,750	32,000	---	36,000	27,240	
	---	18,750	21,350	25,000	27,250	25,000	29,250	27,050	22,148	---	20,100	23,000	
	---	21,828	23,688	29,113	41,694	30,518	32,760	34,500	31,177	---	33,367	29,656	
	---	3,374	4,103	5,630	50,085	8,523	4,887	7,271	9,485	---	12,166	18,792	
	0	9	37	28	16	11	12	10	5	0	3	131	

TABLE-3.5.7

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Biochemistry	---	---	33,000	36,000	41,300	48,000	73,500	55,000	64,000	65,000	47,531	46,375	- 75th %-tile
	---	---	28,200	31,000	36,300	44,000	45,900	45,000	49,250	45,000	27,500	40,000	- Median
	---	---	25,000	28,000	26,915	39,000	42,000	43,000	43,875	34,000	25,000	31,300	- 25th %-tile
	---	---	29,129	32,134	35,794	45,247	62,322	50,663	52,167	64,857	33,396	43,717	- Mean
	---	---	4,445	5,468	7,765	9,587	32,483	11,928	9,647	59,311	12,107	23,212	- Std. Dev.
	0	0	7	15	13	17	9	7	6	7	6	87	- Count
Agricultural/ food chemistry	---	---	34,400	39,900	45,000	44,000	102,500	69,215	65,825	86,500	---	49,275	
	---	---	29,950	34,000	37,500	41,000	53,000	46,500	59,000	64,000	31,000	40,000	
	---	---	28,250	30,100	29,500	36,950	41,753	40,500	44,125	43,000	---	33,700	
	---	---	31,083	37,280	36,680	40,448	72,299	54,518	55,163	64,500	31,000	46,174	
	---	---	4,311	12,246	8,083	6,047	42,146	30,671	19,212	22,650	1,414	23,575	
	0	0	6	19	15	25	13	12	8	4	2	104	
Analytical	---	---	31,775	35,500	42,500	48,000	52,000	50,389	62,825	60,000	45,000	43,000	
	---	---	30,000	33,000	36,500	40,500	43,600	46,850	51,000	51,500	36,000	35,000	
	---	---	27,765	29,850	32,600	33,000	33,000	40,020	35,500	33,500	28,000	30,000	
	---	---	29,823	33,126	37,749	41,751	44,139	46,997	49,588	47,700	39,759	37,844	
	---	---	2,954	5,479	7,844	11,945	12,925	8,845	18,556	14,237	17,608	10,815	
	0	0	94	77	75	43	19	32	13	5	11	329	
Environmental chemistry	---	---	30,650	39,140	42,750	60,000	53,850	55,875	46,200	68,863	34,900	50,000	
	---	---	30,000	34,500	37,380	46,300	40,580	47,750	40,000	59,500	28,000	38,400	
	---	---	23,188	29,188	29,750	38,000	35,450	36,620	37,700	50,375	15,000	33,000	
	---	---	27,535	35,127	37,053	47,273	43,645	47,966	44,829	58,834	25,967	42,041	
	---	---	4,275	8,591	7,870	13,279	10,429	11,830	13,773	10,655	10,105	12,971	
	0	0	5	17	18	15	8	14	7	8	3	95	
Organic chemistry	---	---	34,000	36,985	46,047	48,125	59,000	60,750	63,078	64,750	59,000	49,000	
	---	---	30,550	32,970	39,580	42,900	48,000	48,500	47,600	48,000	39,800	40,000	
	---	---	29,000	29,850	33,000	38,614	40,000	39,000	39,750	39,000	33,500	33,000	
	---	---	34,350	33,651	40,044	45,336	49,138	54,651	53,951	52,886	46,777	43,787	
	---	---	20,442	6,637	9,331	13,076	12,306	28,083	21,903	18,128	17,765	17,839	
	0	0	52	88	94	74	47	57	30	40	27	509	
Pharmaceutical/ medicinal/ clinical chemistry	---	---	30,000	38,760	43,300	51,500	53,000	61,500	70,000	57,500	58,000	50,000	
	---	---	29,000	34,000	38,400	41,000	45,500	54,500	54,000	49,000	43,000	40,000	
	---	---	26,925	28,500	30,448	35,480	36,000	44,500	43,300	41,625	31,700	32,003	
	---	---	28,327	34,522	39,740	43,989	47,155	56,086	59,600	49,458	49,300	44,076	
	---	---	2,859	9,341	13,063	11,506	13,102	19,240	28,951	14,074	26,623	17,779	
	0	0	13	45	56	30	31	28	19	12	17	251	
Physical chemistry	---	---	32,074	39,875	42,000	55,250	51,500	55,050	57,600	54,000	40,000	48,000	
	---	---	31,000	36,000	36,400	44,000	45,000	47,500	53,500	45,000	37,000	39,900	
	---	---	28,800	31,050	33,000	41,600	35,820	42,250	39,736	40,650	30,780	32,100	
	---	---	30,840	36,369	38,408	50,650	45,288	48,491	51,294	48,321	35,448	41,903	
	---	---	3,349	7,478	7,606	17,369	11,438	11,603	12,839	10,144	5,643	12,416	
	0	0	37	36	47	30	26	38	17	13	11	255	
Theoretical chemistry	---	---	---	---	60,000	47,000	---	---	---	---	---	48,000	
	---	---	---	31,550	51,000	45,000	40,300	38,000	---	---	---	45,000	
	---	---	---	---	48,000	30,000	---	---	---	---	---	33,300	
	---	---	---	31,550	53,000	40,667	40,300	38,000	---	---	---	42,064	
	---	---	---	2,475	6,245	9,292	8,061	---	---	---	---	9,645	
	0	0	0	2	3	3	2	1	0	0	0	11	
Polymer/ macromolecular chemistry	---	---	32,500	37,050	42,400	49,540	50,046	61,400	55,000	58,000	49,500	48,000	
	---	---	30,500	34,000	38,600	42,000	44,300	48,000	45,250	47,100	37,000	40,000	
	---	---	28,560	31,000	34,575	37,000	37,492	40,000	38,850	39,000	33,000	34,000	
	---	---	30,412	35,111	38,941	43,573	44,296	53,721	48,522	49,428	39,737	42,559	
	---	---	2,878	6,385	7,332	9,979	10,147	20,483	15,580	19,598	12,738	13,893	
	0	0	33	74	94	77	61	70	50	31	23	493	
Other Chemistry	---	---	32,100	36,920	42,400	46,600	51,480	56,500	60,000	60,000	65,250	48,000	
	---	27,920	30,000	32,100	38,000	35,400	42,000	47,500	46,000	56,000	45,000	37,200	
	---	---	28,200	29,300	34,000	31,125	38,000	40,000	42,750	45,250	27,975	31,050	
	---	27,920	30,226	34,127	40,641	40,742	44,899	52,292	50,891	62,815	50,663	42,126	
	---	4,356	2,776	6,719	10,889	14,452	12,640	22,044	15,381	37,036	28,030	17,364	
	0	2	31	53	37	24	27	32	22	12	8	248	
TOTAL	---	---	32,000	37,125	43,000	48,877	53,000	59,500	60,000	60,000	49,125	48,000	
	---	27,920	30,000	33,500	38,000	42,450	45,000	48,000	48,000	49,750	37,620	39,000	
	---	---	28,500	30,000	33,000	36,875	38,000	40,000	40,000	40,000	30,195	32,188	
	---	27,920	30,986	34,361	39,008	44,183	47,870	52,184	51,936	53,366	42,480	42,392	
	---	4,356	10,047	7,225	9,176	12,289	17,099	20,465	19,701	23,278	18,639	16,114	
	0	2	238	426	452	338	243	291	152	132	108	2,382	

TABLE-3.5.8

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--MEN Only
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Biochemistry	---	---	34,500	36,500	40,650	48,000	73,500	55,000	64,000	65,000	48,688	48,000	- 75th %-ile
	---	---	31,300	34,700	36,650	44,000	45,900	45,000	49,250	45,000	27,000	40,200	- Median
	---	---	25,200	29,000	26,600	39,000	42,000	43,000	43,875	34,000	24,000	35,000	- 25th %-ile
	---	---	30,140	32,685	35,770	45,247	62,322	50,663	52,167	64,857	34,475	45,031	- Mean
	---	---	4,888	5,663	7,929	9,587	32,483	11,928	9,647	59,311	13,210	23,901	- Std. Dev.
	0	0	5	13	10	17	9	7	6	7	5	79	- Count
Agricultural/food chemistry	---	---	34,400	39,900	45,000	44,000	102,500	69,215	65,825	86,500	---	49,700	
	---	---	29,950	34,000	37,500	41,000	53,000	46,500	59,000	64,000	32,000	40,000	
	---	---	28,250	30,100	29,500	36,950	41,753	40,500	44,125	43,000	---	34,000	
	---	---	31,083	37,560	36,680	40,448	72,299	54,618	53,163	64,500	32,000	46,332	
	---	---	4,311	12,246	8,083	6,047	42,146	30,671	19,212	22,650	---	23,635	
	0	0	6	19	15	25	13	12	8	4	1	103	
Analytical chemistry	---	---	31,550	37,025	42,875	49,500	52,000	50,389	65,000	60,000	50,500	43,575	
	---	---	30,000	33,350	36,750	41,850	43,600	46,850	51,500	51,500	39,000	36,000	
	---	---	27,620	30,450	32,625	34,050	33,000	40,020	40,000	33,500	30,675	31,000	
	---	---	29,668	33,732	37,958	42,445	44,139	46,997	54,377	47,700	42,261	38,548	
	---	---	2,852	5,233	7,982	12,055	12,925	8,845	15,495	14,237	18,675	10,924	
	0	0	46	70	68	40	19	32	11	11	9	300	
Environmental chemistry	---	---	30,825	41,500	41,700	60,000	53,850	55,875	46,200	68,863	---	50,550	
	---	---	30,150	35,000	37,380	46,300	40,580	47,750	40,000	59,500	31,450	40,000	
	---	---	23,250	32,500	29,250	38,000	35,450	36,620	37,700	50,375	---	34,575	
	---	---	28,075	37,008	36,491	47,273	43,645	47,966	44,829	58,834	31,450	43,226	
	---	---	4,735	9,337	7,950	13,279	10,429	11,830	13,775	10,655	4,879	12,785	
	0	0	4	12	16	15	8	14	7	8	2	86	
Organic chemistry	---	---	34,000	37,000	46,094	48,375	59,500	60,875	63,078	64,750	59,000	49,500	
	---	---	30,100	33,000	39,960	43,250	48,400	48,750	47,600	48,000	39,800	40,000	
	---	---	29,000	30,000	33,000	39,035	39,550	39,250	39,750	39,000	33,500	33,000	
	---	---	34,445	33,638	40,177	45,644	49,411	54,961	53,931	52,886	46,777	44,072	
	---	---	21,049	6,685	9,364	13,123	12,495	28,239	21,903	18,128	17,765	18,058	
	0	0	49	83	89	72	45	56	30	40	27	491	
Pharmaceutical medicinal/ clinical chemistry	---	---	29,900	38,640	43,400	51,500	53,750	63,250	70,000	57,500	59,000	50,000	
	---	---	28,550	34,200	38,100	41,000	45,550	56,000	54,500	49,000	44,000	40,200	
	---	---	26,888	29,000	30,000	35,480	37,500	45,500	43,225	41,625	34,125	32,450	
	---	---	27,854	34,819	39,833	43,989	47,827	56,938	60,133	49,458	50,725	44,517	
	---	---	2,397	9,346	13,604	11,506	12,772	19,678	29,694	14,074	26,818	18,081	
	0	0	12	42	51	30	30	26	18	12	16	237	
Physical chemistry	---	---	32,400	40,300	42,000	55,250	52,500	55,050	57,600	54,000	40,000	48,000	
	---	---	31,700	36,000	36,400	44,000	45,000	47,500	53,500	45,000	37,000	40,000	
	---	---	28,800	31,150	33,000	41,600	36,500	42,250	39,736	40,650	30,780	33,000	
	---	---	31,063	36,590	38,590	49,404	45,995	48,491	51,294	48,321	35,448	42,097	
	---	---	3,589	7,597	7,586	14,660	11,310	11,603	12,839	10,144	5,643	11,934	
	0	0	31	34	46	26	24	38	17	13	11	240	
Theoretical chemistry	---	---	---	---	60,000	47,000	---	---	---	---	---	49,500	
	---	---	---	29,800	51,000	45,000	40,300	---	---	---	---	46,000	
	---	---	---	---	48,000	30,000	---	---	---	---	---	32,300	
	---	---	---	29,800	53,000	40,667	40,300	---	---	---	---	43,489	
	---	---	---	---	6,245	9,292	8,061	---	---	---	---	10,116	
	0	0	0	1	3	3	2	0	0	0	0	9	
Polymer/ macromolecular chemistry	---	---	33,300	37,000	42,400	50,000	50,068	61,600	55,000	58,000	51,000	48,000	
	---	---	30,700	34,000	38,700	42,000	44,150	48,000	45,250	47,100	39,900	40,000	
	---	---	28,560	31,000	34,675	37,215	37,238	40,000	38,850	39,000	33,000	34,160	
	---	---	30,548	35,048	38,966	43,833	44,285	53,920	48,522	49,428	40,188	42,805	
	---	---	3,038	6,482	7,308	10,057	10,232	20,565	15,580	19,598	13,252	14,061	
	0	0	29	71	90	72	60	69	30	31	21	473	
Other Chemistry	---	---	33,000	36,880	41,970	47,300	51,110	55,500	60,000	60,000	80,000	48,831	
	---	24,840	29,380	32,280	37,750	35,400	41,500	47,500	46,000	56,000	47,000	37,500	
	---	---	28,150	29,350	34,000	31,000	38,125	40,000	42,750	45,250	29,250	31,200	
	---	24,840	30,115	34,220	40,097	41,122	44,951	51,176	50,891	62,815	55,167	42,290	
	---	---	3,908	6,861	10,520	14,654	13,265	20,801	13,381	37,036	31,045	17,387	
	0	1	26	50	36	23	24	30	22	12	6	230	
TOTAL	---	---	32,046	37,200	43,000	49,000	53,400	59,650	60,000	60,000	51,250	48,000	
	---	24,840	30,031	34,000	38,050	42,780	45,000	48,000	48,000	49,750	39,000	39,686	
	---	---	28,300	30,100	33,000	37,000	38,000	40,000	40,000	40,000	32,375	33,000	
	---	24,840	31,097	34,611	39,068	44,277	48,151	52,261	52,334	53,366	43,746	42,824	
	---	---	10,693	7,287	9,240	11,921	17,291	20,441	18,571	23,278	18,962	16,255	
	0	1	208	395	424	323	234	284	149	132	98	2,248	

TABLE-3.5.9

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--WOMEN Only
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Biochemistry	---	---	---	---	44,796	---	---	---	---	---	---	34,350	- 75th $-tile
	---	---	26,600	28,554	35,800	---	---	---	---	---	28,000	28,100	- Median
	---	---	---	---	27,029	---	---	---	---	---	---	27,049	- 25th $-tile
	---	---	26,600	28,554	35,875	---	---	---	---	---	28,000	30,742	- Mean
	---	---	2,263	2,045	8,884	---	---	---	---	---	---	6,520	- Std. Dev.
	0	0	2	2	3	0	0	0	0	0	1	8	- Count
Agricultural/food chemistry	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	30,000	30,000	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	30,000	30,000	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	1	1	
Analytical chemistry	---	---	32,750	29,700	42,000	37,200	---	---	---	---	---	34,650	
	---	---	30,500	26,640	34,800	33,000	---	---	23,250	---	28,500	29,700	
	---	---	28,170	23,500	29,500	27,300	---	---	---	---	---	26,970	
	---	---	30,716	27,063	35,711	32,500	---	---	23,250	---	28,500	30,557	
	---	---	3,565	4,262	6,488	4,969	---	---	9,546	---	707	5,946	
	0	0	8	7	7	3	0	0	2	0	2	29	
Environmental chemistry	---	---	---	33,840	---	---	---	---	---	---	---	34,425	
	---	---	25,376	29,375	36,100	---	---	---	---	---	15,000	29,188	
	---	---	---	28,000	---	---	---	---	---	---	---	25,782	
	---	---	25,376	30,611	36,100	---	---	---	---	---	15,000	28,691	
	---	---	---	4,400	---	---	---	---	---	---	---	7,063	
	0	0	1	5	1	0	0	0	0	0	1	8	
Organic Chemistry	---	---	37,400	39,020	44,175	---	---	---	---	---	---	39,500	
	---	---	32,000	32,800	35,850	34,258	43,000	37,316	---	---	---	33,516	
	---	---	29,000	29,260	26,400	---	---	---	---	---	---	30,760	
	---	---	32,800	33,872	35,475	34,258	43,000	37,316	---	---	---	35,382	
	---	---	4,257	6,534	9,196	1,049	4,243	---	---	---	---	6,293	
	0	0	3	5	4	2	2	1	0	0	0	17	
Pharmaceutial/ medicinal/ clinical chemistry	---	---	---	40,600	43,500	---	---	---	---	---	---	41,300	
	---	---	34,000	30,000	39,000	---	27,000	40,000	50,000	---	26,500	38,000	
	---	---	---	20,500	34,000	---	---	---	---	---	---	28,500	
	---	---	34,000	30,367	38,800	---	27,000	40,000	50,000	---	26,500	35,585	
	---	---	---	10,055	5,630	---	---	---	---	---	---	8,408	
	0	0	1	3	5	0	1	1	1	0	1	13	
Physical Chemistry	---	---	30,675	---	---	54,000	---	---	---	---	---	34,500	
	---	---	29,370	32,612	30,050	43,000	27,500	---	---	---	---	30,050	
	---	---	28,725	---	---	33,000	---	---	---	---	---	28,800	
	---	---	29,690	32,612	30,050	43,333	27,500	---	---	---	---	33,147	
	---	---	1,256	4,791	---	10,504	---	---	---	---	---	7,509	
	0	0	6	2	1	3	1	0	0	0	0	13	
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	33,300	---	---	---	38,000	---	---	---	35,650	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	33,300	---	---	---	38,000	---	---	---	35,650	
	---	---	---	---	---	---	---	---	---	---	---	3,323	
	0	0	0	1	0	0	0	1	0	0	0	2	
Polymer/ macromolecular chemistry	---	---	30,300	40,000	38,000	---	---	---	---	---	---	37,100	
	---	---	29,350	37,200	34,500	29,400	---	---	---	---	35,000	32,640	
	---	---	28,625	32,640	30,000	---	---	---	---	---	---	29,550	
	---	---	29,425	36,613	34,167	29,400	---	---	---	---	35,000	33,034	
	---	---	869	3,715	4,010	---	---	---	---	---	2,828	3,930	
	0	0	4	3	3	1	0	0	0	0	2	13	
Other Chemistry	---	---	31,550	37,000	---	---	---	---	---	---	---	37,899	
	---	31,000	30,930	31,700	---	32,000	40,720	69,026	---	---	37,150	31,850	
	---	---	30,000	29,000	---	---	---	---	---	---	---	35,233	
	---	31,000	30,806	32,567	---	32,000	40,720	69,026	---	---	37,150	38,033	
	---	---	870	4,070	---	---	4,639	43,804	---	---	13,930	17,406	
	0	1	5	3	0	1	2	2	0	0	2	16	
TOTAL	---	---	31,850	35,000	41,375	38,650	44,500	70,000	50,000	---	34,000	37,238	
	---	31,000	30,000	29,700	35,950	33,258	38,720	38,052	30,000	---	28,500	31,000	
	---	---	28,725	27,600	30,013	31,350	27,375	37,658	16,500	---	27,100	29,000	
	---	31,000	30,219	31,165	35,923	35,742	36,990	50,674	32,167	---	30,080	33,299	
	---	---	2,849	5,545	6,288	7,704	8,117	27,592	16,855	---	8,168	8,935	
	0	1	30	31	24	10	6	5	3	0	10	120	

TABLE-3.6.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by INDUSTRY and YEARS SINCE BS
1981 Survey of ACS Members

	YEARS SINCE BS											
NON-ACAD EMPLOYER	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Mfg Chem	21,180	22,000	27,150	34,625	41,000	47,000	43,350	44,000	50,200	48,700	32,280	39,600 - 75th %-ile
	20,845	20,000	23,174	28,746	33,000	39,250	35,820	36,400	38,000	40,000	27,000	30,000 - Median
	18,925	17,937	20,000	24,000	28,000	30,000	28,233	31,375	30,180	32,860	21,600	23,820 - 25th %-ile
	20,966	20,617	24,164	29,603	36,440	39,733	38,398	44,158	44,720	41,645	26,960	34,431 - Mean
	3,675	4,333	6,866	6,494	13,574	11,644	15,664	27,180	23,030	10,646	5,340	17,785 - Std. Dev.
	8	56	66	50	47	40	49	74	41	25	3	459 - Count
Mfg Coat	30,000	21,710	25,500	34,800	32,600	36,800	40,750	44,250	67,200	45,500	---	38,125
	20,000	19,300	22,000	33,750	26,000	30,200	39,800	35,500	48,360	32,148	---	29,060
	17,000	17,050	19,500	27,400	24,200	26,650	35,500	27,490	40,250	28,500	---	22,000
	22,333	19,407	23,094	33,042	27,322	32,209	38,478	43,031	55,196	36,030	---	32,690
	6,807	2,877	5,249	7,364	6,150	6,613	5,942	37,531	22,547	10,372	---	21,111
	3	21	23	16	9	17	9	30	9	5	0	142
Mfg Food	24,100	22,625	23,400	31,000	35,625	31,444	43,000	48,000	69,375	28,775	---	32,000
	24,000	19,700	20,700	22,500	31,300	30,000	32,000	37,160	34,650	25,050	---	24,300
	12,400	16,625	17,100	18,563	22,905	28,000	29,700	26,500	24,450	24,625	---	20,550
	20,167	19,250	20,673	24,230	30,087	29,326	34,900	42,538	42,825	26,150	---	28,226
	6,726	3,206	6,084	6,499	6,249	4,719	7,108	22,369	25,597	2,580	---	13,893
	3	12	11	12	6	9	3	12	4	4	0	76
Mfg Metals/ minerals	---	23,059	24,000	32,168	34,115	74,275	32,000	39,750	67,000	---	---	34,500
	21,450	20,236	22,000	28,450	30,530	42,800	25,895	32,500	41,500	36,000	32,270	25,000
	---	17,375	20,000	22,780	23,150	27,000	22,000	26,625	30,210	---	---	21,880
	21,450	20,575	22,195	28,854	29,265	48,025	29,162	34,025	48,973	36,000	32,270	29,983
	---	4,378	3,517	7,482	5,948	25,251	10,109	8,494	27,715	---	10,281	14,208
	1	10	15	8	4	4	7	10	6	1	2	68
Mfg Paper	---	21,602	24,125	30,888	---	---	---	42,000	---	---	---	32,000
	15,500	19,000	22,000	27,276	34,000	38,500	33,400	35,700	27,000	---	---	25,700
	---	16,050	17,295	26,925	---	---	---	30,000	---	---	---	19,250
	15,500	18,861	20,987	28,363	34,000	38,500	33,400	35,900	27,000	---	---	26,178
	---	2,889	3,763	2,442	---	9,192	---	6,002	---	---	---	8,189
	1	5	6	4	1	2	1	3	1	0	0	24
Mfg Petroleum	18,525	22,750	31,050	39,986	39,180	36,258	---	47,750	49,000	61,875	---	42,500
	18,100	20,250	27,450	29,500	34,200	32,266	48,500	42,410	43,000	44,250	24,387	32,000
	17,675	19,248	20,750	25,000	32,000	23,735	---	29,750	40,000	41,500	---	23,387
	18,100	21,444	26,778	32,482	33,407	30,753	48,500	39,767	42,554	50,365	24,387	33,869
	440	3,471	5,657	11,920	8,375	6,761	2,121	9,706	5,970	12,027	867	12,372
	4	12	10	13	11	4	2	14	7	10	2	89
Mfg Pharm	23,600	20,158	25,000	32,500	37,000	37,500	40,000	47,000	48,000	49,875	---	34,000
	17,500	18,320	22,000	28,000	31,000	31,000	34,000	42,000	36,000	33,500	---	26,235
	16,920	16,850	19,500	24,945	25,000	26,400	30,000	34,000	27,750	28,250	---	21,000
	19,340	18,636	22,291	29,650	31,539	32,762	35,538	41,935	37,633	41,417	---	28,733
	3,701	3,049	5,000	6,700	8,075	7,917	8,889	9,137	10,311	24,109	---	10,567
	3	40	71	39	27	27	23	27	9	6	0	272
Mfg Rubber	---	22,000	27,375	---	32,700	33,222	48,000	49,500	50,000	50,625	---	39,600
	18,000	20,160	24,390	29,000	29,280	30,616	37,275	34,150	37,500	43,380	---	29,280
	---	18,490	20,050	---	25,742	25,700	24,000	29,000	27,375	29,500	---	24,000
	18,000	20,228	23,947	29,000	29,724	29,846	35,965	38,345	38,583	41,710	---	32,690
	0	1,755	3,781	---	5,054	3,986	12,224	12,497	12,010	12,432	---	11,432
	2	5	6	1	9	4	7	13	6	6	0	59
Mfg Other	25,490	23,040	27,000	30,000	35,025	37,491	41,250	49,000	36,240	45,000	---	35,000
	18,000	20,000	23,750	26,400	29,350	30,400	35,000	36,000	28,000	34,440	---	27,000
	15,950	17,500	20,000	22,675	24,450	25,540	32,188	30,000	22,500	32,000	---	22,000
	20,853	20,454	24,250	27,383	31,314	31,382	38,603	38,193	31,876	39,889	---	29,778
	7,316	4,159	5,778	6,862	10,657	7,248	12,432	14,148	12,952	16,199	---	11,558
	6	42	70	50	38	28	26	47	15	19	0	341
Non-Mfg	16,500	22,000	24,090	30,850	42,100	54,750	43,125	40,000	58,500	54,750	---	31,200
	14,350	19,000	21,200	26,600	32,600	33,500	34,000	35,000	42,500	38,500	---	23,592
	13,000	14,750	17,675	21,149	26,600	29,250	25,650	25,000	31,000	24,943	---	18,900
	15,397	20,063	21,482	27,596	35,363	38,222	33,963	33,545	44,000	41,295	---	26,711
	3,215	8,213	4,876	8,793	12,067	14,518	9,948	9,684	14,537	19,059	---	11,810
	7	25	44	12	8	8	8	13	4	6	0	135
TOTAL	21,293	22,000	25,850	33,000	36,875	39,600	41,700	45,000	49,625	47,425	32,280	36,000
	18,000	19,855	22,500	28,000	31,380	32,232	35,000	36,300	38,500	38,250	25,000	28,000
	16,000	17,242	19,775	23,630	25,500	28,700	29,000	30,000	29,000	31,825	23,774	22,000
	19,250	19,990	23,134	29,033	32,810	34,835	37,122	40,888	42,594	41,097	27,742	31,097
	4,755	4,456	5,662	7,412	10,687	10,499	12,515	22,202	19,902	14,331	6,176	14,810
	38	228	322	205	160	143	135	243	102	82	7	1,665

TABLE-3.6.2

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY
by INDUSTRY and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACAD EMPLOYER	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Mfg Chem	---	24,250	27,430	33,030	43,000	46,050	46,800	48,000	53,000	53,000	45,000	42,391	- 75th %-ile
	---	20,500	24,110	27,890	38,000	36,000	37,500	38,000	41,000	50,000	35,000	34,000	- Median
	---	19,400	21,805	24,750	32,500	30,200	29,000	33,250	32,000	32,500	29,000	26,500	- 25th %-ile
	---	21,510	24,809	33,430	38,856	37,829	45,499	40,817	43,036	46,433	38,227	37,295	- Mean
	---	2,629	4,207	31,709	9,427	10,381	29,014	10,766	13,060	17,273	11,695	19,323	- Std. Dev.
	0	10	42	46	39	30	37	53	19	19	11	306	- Count
Mfg Coat	---	---	25,786	37,500	35,000	37,960	86,250	42,000	52,000	---	29,815	37,125	
	---	---	22,300	32,700	30,738	37,000	39,250	35,500	23,000	55,000	29,130	31,500	
	---	---	21,350	30,000	25,000	29,000	30,625	34,290	18,000	---	21,650	25,429	
	---	---	23,332	33,747	29,927	35,794	64,250	37,215	31,000	55,000	26,865	35,615	
	---	---	3,896	6,658	5,566	7,666	59,591	8,409	18,358	---	5,128	23,896	
	0	0	13	11	7	7	8	12	3	1	4	66	
Mfg Food	---	---	22,600	35,000	---	35,205	69,000	36,250	57,500	49,800	58,750	42,000	
	---	---	21,500	28,500	43,000	30,950	53,000	32,000	35,000	34,000	45,500	31,000	
	---	---	18,900	28,000	---	30,070	51,500	30,000	19,400	28,000	28,500	26,000	
	---	---	20,900	30,664	43,000	32,075	57,833	32,750	37,300	37,267	44,250	34,759	
	---	---	2,005	5,809	---	2,969	9,700	3,403	20,845	11,261	15,966	12,758	
	0	0	5	11	1	4	3	4	4	3	4	39	
Mfg Metals/ minerals	---	---	27,000	31,155	31,000	---	---	38,950	42,000	---	---	38,000	
	---	23,700	22,850	26,545	50,000	36,250	---	38,000	30,000	49,000	55,000	29,130	
	---	---	19,515	18,075	35,000	---	---	31,250	17,796	---	---	21,600	
	---	23,700	24,779	25,126	45,333	36,250	---	35,680	29,932	49,000	55,000	30,324	
	---	---	6,619	6,390	8,963	354	---	6,304	12,102	---	---	10,406	
	0	1	14	8	3	2	0	5	3	1	1	38	
Mfg Paper	---	---	---	---	48,828	---	42,400	---	---	---	---	41,000	
	---	---	21,000	24,240	37,000	25,500	32,000	---	41,000	30,000	---	30,000	
	---	---	---	---	22,250	---	29,440	---	---	---	---	25,000	
	---	---	21,000	24,240	35,831	25,500	35,136	---	41,000	30,000	---	33,105	
	---	---	---	---	13,534	---	6,931	---	---	---	---	9,774	
	0	0	1	1	5	1	5	0	1	1	0	15	
Mfg Petroleum	---	24,750	27,000	34,425	41,500	48,400	48,500	60,750	---	63,500	---	47,000	
	---	23,500	25,000	31,300	36,000	35,100	46,300	52,500	50,000	45,350	38,550	35,750	
	---	20,150	24,420	25,007	26,950	26,000	43,000	35,670	---	38,960	---	25,836	
	---	22,800	26,009	30,370	34,580	36,780	45,498	48,660	50,000	49,748	38,550	37,952	
	---	2,535	2,714	6,030	7,327	12,005	7,656	15,892	16,971	13,669	26,092	13,493	
	0	4	11	10	5	5	11	6	2	10	2	66	
Mfg Pharm	---	24,025	25,650	35,600	36,495	38,800	45,000	45,000	45,000	52,000	40,000	38,000	
	---	22,000	22,500	28,600	29,850	30,950	38,600	38,250	38,000	40,000	30,000	29,255	
	---	18,703	20,469	25,450	26,000	27,119	30,000	33,980	33,000	37,000	21,000	24,050	
	---	21,445	23,007	34,954	37,338	32,792	38,391	41,097	39,924	43,700	30,333	33,921	
	---	3,336	3,791	34,684	42,807	7,748	10,486	12,319	9,988	13,352	9,504	23,077	
	0	6	42	41	40	14	16	23	11	8	3	204	
Mfg Rubber	---	---	29,150	---	35,000	---	44,200	53,000	70,000	---	---	42,000	
	---	---	26,100	30,300	35,000	44,000	34,000	41,000	35,750	34,000	38,000	34,000	
	---	---	23,850	---	27,340	---	28,843	32,250	28,875	---	---	30,150	
	---	---	26,500	30,300	32,447	44,000	36,017	49,875	44,875	34,000	38,000	39,387	
	---	---	3,092	---	4,423	---	8,820	29,493	23,953	1,414	---	19,106	
	0	0	4	1	3	1	5	8	4	2	1	29	
Mfg Other	---	24,888	26,750	34,500	36,010	42,600	42,398	44,450	46,775	78,750	49,500	38,840	
	---	24,000	24,400	30,000	32,000	34,000	36,000	40,000	39,000	39,400	36,000	31,000	
	---	23,000	20,825	26,700	26,400	30,500	31,000	32,300	33,750	31,105	26,160	26,000	
	---	23,805	23,980	34,687	32,441	37,547	37,685	40,114	41,410	52,457	36,331	34,248	
	---	1,100	3,763	30,758	8,710	11,974	9,242	8,756	13,040	29,984	10,392	17,379	
	0	10	37	43	29	17	28	29	10	6	7	216	
Non-Mfg	---	24,500	25,350	29,500	35,000	43,500	44,000	50,000	---	41,118	52,000	35,800	
	---	21,000	21,000	26,000	28,775	37,000	37,260	33,000	---	28,000	41,250	29,000	
	---	16,500	18,908	21,000	23,750	33,200	20,000	31,000	---	24,350	28,100	22,000	
	---	20,667	22,655	27,473	28,434	43,467	33,052	38,329	---	31,156	40,450	30,595	
	---	4,010	4,815	7,537	7,903	17,923	12,330	9,862	---	9,467	11,970	11,600	
	0	3	13	19	22	11	5	7	0	4	3	87	
TOTAL	---	24,500	26,643	33,200	38,625	42,375	45,925	45,000	49,050	53,000	48,375	40,000	
	---	23,000	23,500	29,000	33,108	35,000	38,750	38,000	39,000	41,000	35,500	31,770	
	---	20,000	21,000	25,000	27,000	30,285	30,000	33,000	31,250	32,000	28,325	25,500	
	---	22,315	23,944	32,734	35,150	37,121	42,897	40,729	40,762	45,136	37,270	35,073	
	---	2,608	4,208	26,861	18,549	11,188	24,064	12,290	13,959	16,920	12,124	18,762	
	0	34	182	191	154	92	118	147	57	55	36	1,066	

TABLE-3.6.3

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by INDUSTRY and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACAD EMPLOYER	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Mfg Chem	---	---	31,800	36,000	43,882	48,000	53,500	60,000	62,650	69,810	51,000	48,000	- 75th %-tile
	---	24,840	30,000	33,000	39,200	42,250	43,850	49,850	48,000	50,000	39,400	39,500	- Median
	---	---	28,500	29,700	34,700	36,000	38,000	40,000	41,000	40,250	33,000	33,000	- 25th %-tile
	---	24,840	31,725	33,695	39,497	44,689	47,807	54,095	53,968	55,948	45,014	43,343	- Mean
	---	---	15,491	6,657	7,617	12,978	17,989	23,844	18,546	19,661	19,264	17,491	- Std. Dev.
	0	1	91	147	145	107	94	112	57	48	44	846	- Count
Mfg Coat	---	---	33,024	36,000	41,800	47,000	62,250	65,625	57,000	52,000	53,000	45,000	
	---	---	30,000	31,900	39,000	41,000	45,500	57,150	55,000	46,000	29,400	36,500	
	---	---	29,850	30,000	35,025	31,350	34,950	46,750	31,500	34,206	5,500	31,000	
	---	---	31,290	32,782	39,964	41,514	49,250	57,133	47,833	43,682	29,300	39,447	
	---	---	2,133	5,414	8,842	10,954	15,554	11,259	14,180	9,712	23,750	12,017	
	0	0	13	23	20	14	10	6	3	5	3	97	
Mfg Food	---	---	33,000	37,250	39,000	44,000	88,000	55,250	66,000	52,000	---	44,750	
	---	---	31,500	30,550	33,116	40,000	45,000	46,250	53,500	40,000	32,000	35,000	
	---	---	29,500	25,150	28,525	32,000	35,650	42,500	24,050	34,000	---	30,300	
	---	---	31,314	33,283	34,574	37,720	58,460	49,917	46,720	42,000	32,000	38,613	
	---	---	3,171	10,329	7,591	8,634	36,890	15,416	23,475	9,165	---	15,206	
	0	0	7	14	17	15	5	6	5	3	1	73	
Mfg Metals/ minerals	---	---	32,000	36,795	36,750	50,000	---	54,500	54,500	---	---	49,050	
	---	---	29,750	34,000	33,250	41,600	38,200	46,000	53,500	36,000	---	38,000	
	---	---	28,025	31,725	29,750	36,500	---	45,000	49,600	---	---	32,000	
	---	---	29,833	34,493	33,750	46,527	38,200	48,135	52,340	36,000	---	41,166	
	---	---	1,964	3,430	4,623	16,287	11,031	6,203	3,511	---	---	11,745	
	0	0	6	6	6	11	2	7	5	1	0	44	
Mfg Paper	---	---	30,810	34,600	41,000	41,400	42,500	---	48,750	60,000	52,500	40,500	
	---	---	29,000	31,315	36,500	40,100	36,250	40,800	38,350	57,000	28,000	37,000	
	---	---	24,100	29,875	30,500	38,574	34,000	---	34,695	55,000	28,000	30,960	
	---	---	27,764	32,053	35,661	40,132	38,417	40,800	43,480	57,333	36,167	37,981	
	---	---	4,773	2,513	6,451	1,566	6,135	---	15,618	2,517	14,145	10,031	
	0	0	5	5	10	6	6	1	6	3	3	45	
Mfg Petroleum	---	---	34,700	41,450	49,000	55,250	54,000	62,100	72,000	65,000	70,000	52,380	
	---	31,000	33,000	35,500	42,500	47,650	50,000	49,500	60,000	55,000	43,000	43,000	
	---	---	31,250	32,000	37,000	42,750	42,000	46,250	49,400	48,000	40,000	34,800	
	---	31,000	33,958	36,956	42,717	50,877	49,652	52,023	59,557	59,773	52,929	45,246	
	---	---	4,771	6,981	7,786	14,168	10,114	9,386	13,461	16,325	18,615	12,933	
	0	1	25	40	31	26	19	24	7	11	7	191	
Mfg Pharm	---	---	30,000	38,000	44,898	50,000	55,150	60,000	67,975	58,000	51,000	49,850	
	---	---	28,600	34,400	39,000	44,000	47,000	50,000	52,500	51,000	40,200	40,000	
	---	---	26,400	29,800	32,300	39,000	42,000	40,000	43,225	38,184	34,000	32,300	
	---	---	28,522	34,559	40,643	45,185	48,854	54,692	58,008	48,323	45,218	43,341	
	---	---	2,965	7,838	11,908	10,738	11,710	22,462	25,996	15,131	21,413	16,526	
	0	0	31	75	89	55	37	47	26	19	23	402	
Mfg Rubber	---	---	---	35,500	42,925	45,600	46,685	48,900	55,650	51,250	---	45,720	
	---	---	27,510	31,000	40,000	41,600	45,000	40,080	48,000	46,350	29,200	41,137	
	---	---	---	30,000	37,875	40,000	37,542	39,000	41,500	40,478	---	37,500	
	---	---	27,510	32,167	40,485	42,831	43,470	42,933	48,460	45,890	29,200	41,731	
	---	---	1,570	2,930	4,149	7,520	6,467	5,280	7,730	5,333	8,061	7,397	
	0	0	2	3	12	11	9	9	5	6	2	59	
Mfg Other	---	---	33,950	37,350	42,250	50,000	51,625	53,000	55,000	56,700	42,450	46,000	
	---	---	30,050	33,000	35,000	42,000	44,500	44,000	45,000	43,500	33,000	37,600	
	---	---	28,525	29,112	32,000	35,550	35,397	38,000	37,525	38,700	28,000	32,000	
	---	---	30,724	33,847	37,992	43,897	46,790	48,582	47,569	51,837	36,958	41,002	
	---	---	3,692	6,331	9,653	12,593	20,100	18,977	15,369	28,096	14,033	19,484	
	0	0	40	89	89	69	48	59	30	34	19	468	
Non-Mfg	---	---	31,750	44,300	41,000	44,000	63,500	63,000	50,000	65,000	41,500	46,050	
	---	---	30,300	36,500	34,300	38,750	51,000	45,380	40,000	48,000	32,890	37,000	
	---	---	27,750	31,250	29,400	32,250	34,500	37,345	30,300	40,000	26,500	30,965	
	---	---	29,267	38,271	34,948	39,355	50,662	51,748	40,500	59,955	34,630	40,942	
	---	---	3,020	10,967	7,943	10,338	20,192	19,583	10,035	48,016	11,305	18,884	
	0	0	18	24	33	24	13	20	8	11	6	157	
TOTAL	---	---	32,000	37,125	43,000	48,877	53,000	59,500	60,000	60,000	49,125	48,000	
	---	27,920	30,000	33,500	38,000	42,450	45,000	48,000	48,000	49,750	37,620	39,000	
	---	---	28,500	30,000	33,000	36,875	38,000	40,000	40,000	40,000	30,195	32,188	
	---	27,920	30,986	34,361	39,008	44,183	47,870	52,184	51,936	53,366	42,480	42,392	
	---	156	10,047	7,225	9,176	12,289	17,099	20,465	18,701	23,278	18,639	16,114	
	0	2	238	426	452	338	243	291	152	132	108	2,382	

TABLE-4.7.1

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY
by TYPE OF INSTITUTION and ACADEMIC RANK
1981 Survey of ACS Members

	ACADEMIC EMPLOYER								
ACADEMIC RANK	Private Doct.	Private Masters	Private Bachelors	Private Assoc.	Public Doct.	Public Masters	Public Bachelors	Public Assoc.	TOTAL
Professor	48,000	33,000	27,961	---	45,000	34,238	33,625	31,250	40,000 - 75th %-ile
	40,000	30,000	24,000	31,200	36,600	29,500	29,505	27,555	32,500 - Median
	31,900	26,000	21,000	---	30,925	26,198	25,000	25,145	27,025 - 25th %-ile
	41,908	29,663	25,102	31,200	38,418	30,078	29,532	29,214	34,864 - Mean
	20,267	5,340	5,060	---	9,570	4,760	5,307	7,492	12,325 - Std. Dev.
	118	31	97	1	305	73	66	18	709 - Count
Associate professor	33,500	24,750	22,050	---	30,000	24,607	23,789	27,962	28,000
	26,200	23,605	20,250	24,030	26,000	22,750	22,000	23,750	24,000
	23,502	18,075	17,965	---	23,200	21,000	20,000	20,000	21,500
	32,302	22,521	20,436	24,030	26,727	23,127	22,318	23,948	25,578
	29,362	4,273	3,846	---	4,434	2,886	3,500	4,628	13,053
	55	10	46	1	125	32	44	14	327
Assistant professor	26,000	18,475	17,500	---	24,500	19,575	18,975	19,000	22,700
	21,950	17,150	16,800	---	20,300	18,000	18,000	16,450	19,100
	19,475	14,725	15,600	---	18,500	17,000	15,969	15,750	17,100
	22,998	16,890	16,928	---	21,408	18,227	17,917	17,190	20,368
	4,951	1,985	2,012	---	4,304	2,568	2,386	1,828	4,494
	62	10	41	0	111	20	18	5	267
Instructor or lecturer	29,250	---	---	---	20,000	---	---	31,000	25,000
	21,000	---	12,850	25,000	16,450	17,500	16,400	23,000	18,800
	18,875	---	---	---	14,650	---	---	15,900	15,600
	23,450	---	12,850	25,000	19,710	17,500	16,400	24,170	21,195
	5,740	---	1,202	---	11,740	---	3,394	7,841	8,733
	5	0	2	1	10	1	2	10	31
Non-Faculty	27,950	---	---	---	27,000	---	---	---	27,000
	21,000	---	---	---	21,000	15,000	---	---	21,000
	5,850	---	---	---	16,800	---	---	---	16,400
	22,978	---	---	---	21,982	15,000	---	---	22,391
	9,376	---	---	---	6,626	---	---	---	8,106
	37	0	0	0	35	1	0	0	73
Unranked	28,000	---	18,270	---	27,000	---	---	28,000	27,200
	20,000	21,840	18,000	---	21,000	---	26,000	22,425	20,325
	13,240	---	17,935	---	17,040	---	---	18,900	17,711
	20,413	21,840	18,068	---	21,741	---	26,000	22,605	21,685
	7,389	9,673	178	---	6,440	---	---	5,433	5,826
	3	2	3	0	15	0	1	10	34
No Response	---	---	36,500	---	42,250	---	---	---	27,200
	27,400	---	25,950	---	25,000	23,950	22,833	---	25,000
	---	---	18,925	---	22,000	---	---	---	21,250
	27,400	---	27,125	---	29,750	23,950	22,833	---	26,805
	---	---	9,649	---	12,312	4,313	1,884	---	8,364
	1	0	4	0	4	2	2	0	13
TOTAL	38,000	30,500	24,900	31,200	38,000	30,025	29,905	29,452	33,972
	29,000	26,000	21,000	25,000	29,300	25,600	24,000	24,500	26,200
	22,150	18,650	17,898	24,030	23,000	21,400	20,985	20,000	21,000
	32,753	25,610	22,059	26,743	31,151	26,207	25,249	24,821	28,816
	20,682	6,992	5,583	3,890	10,824	6,197	6,273	7,030	12,649
	281	53	193	3	605	129	133	57	1,454

TABLE-4.7.2

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME In COLLEGE/UNIVERSITY
by RANK and YEARS SINCE BS
1981 Survey of ACS Members

YEARS SINCE BS	ACADEMIC RANK: Professor	Assoc. Prof.	Assist. Prof.	Inst./ Lecturer	Non-Faculty	Un-ranked	No Resp	TOTAL	
(5-9)	---	---	20,875	16,000	18,500	---	---	20,488	- 75th %-ile
	29,000	24,000	18,375	15,200	16,700	12,620	---	18,000	- Median
	---	---	16,575	13,000	14,050	---	---	16,000	- 25th %-ile
	29,000	24,000	19,228	14,733	16,720	12,620	---	18,801	- Mean
	---	2,828	3,456	1,553	3,770	877	---	3,933	- Std. Dev.
	1	2	58	3	10	2	0	76	- Count
(10-14)	---	24,975	22,775	19,813	23,750	25,750	---	24,000	
	27,000	23,100	19,022	17,250	18,000	19,000	---	20,000	
	---	19,400	17,213	15,200	15,000	15,320	---	17,375	
	27,000	22,621	20,470	17,835	18,956	20,438	---	20,740	
	4,243	4,127	4,682	3,698	5,245	6,007	---	4,792	
	2	52	132	10	24	9	0	229	
(15-19)	32,000	26,500	25,000	27,500	27,493	22,810	26,650	28,000	
	27,400	23,000	19,600	18,800	22,500	19,850	24,165	23,750	
	23,900	21,000	18,000	15,600	19,370	17,201	21,250	20,805	
	29,504	24,193	21,395	21,000	24,411	19,953	23,993	25,169	
	8,753	5,301	4,737	7,736	7,239	3,425	2,759	7,160	
	85	123	47	5	17	6	5	288	
(20-24)	35,900	28,400	22,525	---	31,750	28,020	26,000	33,073	
	30,000	24,700	19,900	34,000	24,200	20,975	25,000	28,000	
	26,000	22,000	17,175	---	18,125	19,793	20,900	23,825	
	31,772	25,458	20,797	34,000	24,650	22,833	23,967	29,111	
	7,906	5,080	4,874	2,828	7,204	4,331	2,702	7,867	
	171	69	16	2	6	6	3	273	
(25-29)	39,375	30,650	23,275	28,500	31,000	---	---	37,250	
	32,500	26,000	22,000	22,000	28,500	25,000	26,000	30,000	
	26,510	22,950	18,150	14,000	23,000	---	---	25,000	
	34,968	27,611	20,970	21,500	27,500	25,000	26,000	32,698	
	17,896	6,304	3,067	7,550	4,093	1,414	1,414	16,118	
	148	37	5	4	3	2	2	201	
(30-34)	45,000	30,375	20,500	---	---	33,300	---	42,500	
	34,476	26,620	20,000	40,552	36,500	30,000	---	33,000	
	29,350	22,400	12,544	---	---	28,600	---	28,000	
	37,323	26,289	17,681	40,552	36,500	30,633	---	35,746	
	11,871	4,768	4,456	16,190	7,778	2,413	---	11,855	
	121	14	3	2	2	3	0	145	
(35-39)	46,235	32,450	---	---	---	---	---	43,000	
	36,200	25,000	20,000	25,000	27,500	---	40,000	35,500	
	31,300	21,522	---	---	---	---	---	30,000	
	38,507	26,758	20,000	25,000	27,500	---	40,000	36,786	
	10,543	6,597	---	---	17,678	---	---	10,974	
	78	9	1	1	2	0	1	92	
(>=40)	46,500	32,000	---	---	29,544	---	---	45,000	
	38,500	27,000	---	22,000	22,500	21,000	48,000	36,500	
	32,225	22,100	---	---	20,784	---	---	29,544	
	39,695	27,514	---	22,000	24,276	21,000	48,000	37,772	
	10,057	5,765	---	---	4,642	---	---	10,705	
	70	7	0	1	3	1	1	83	
No Response	45,000	32,850	27,250	21,000	37,250	29,000	---	39,000	
	36,000	26,123	18,700	16,400	25,000	20,000	16,600	29,000	
	30,184	22,425	15,750	10,000	16,800	15,250	---	21,000	
	37,012	41,741	20,940	15,800	27,700	21,700	16,600	33,570	
	9,940	57,285	7,051	5,524	14,209	7,032	---	27,950	
	33	14	5	3	6	5	1	67	
TOTAL	40,000	28,000	22,700	25,000	27,000	27,200	27,200	33,972	
	32,500	24,000	19,100	18,800	21,000	20,325	25,000	26,200	
	27,025	21,500	17,100	15,600	16,400	17,711	21,250	21,000	
	34,864	25,578	20,368	21,195	22,391	21,685	26,805	28,816	
	12,325	13,053	4,494	8,733	8,106	5,826	8,364	12,649	
	709	327	267	31	73	34	13	1,454	

TABLE-4.7.3

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY
by SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

YEARS SINCE BS	SPECIALTY												
	Chem Eng.	Biochem	Agr./ Food	Analytical	Environ-ment	Organic	Pharm/ macro.	Physical	Theore.	Polymer/ Macromo.	Other Chemical	Non-chem	No Response	TOTAL
(5-9)	---	20,225	---	18,325	27,000	19,700	25,000	23,975	---	---	20,375	---	---	20,488 = 75th %-tile
	---	18,500	22,800	17,000	25,000	17,800	19,700	17,050	18,225	21,600	18,000	---	---	18,000 = Median
	---	15,950	---	16,000	22,000	16,550	13,530	15,875	---	---	15,500	---	---	16,000 = 25th %-tile
	---	18,903	22,800	17,056	24,667	18,331	19,410	19,150	18,225	21,600	18,396	---	---	18,801 = Mean
	---	3,954	---	1,477	2,917	3,076	6,472	5,016	3,147	6,223	4,194	---	---	3,933 = Std. Dev.
	0	12	1	9	3	17	4	6	2	2	20	0	0	76 = Count
(10-14)	---	25,300	---	25,700	26,900	22,000	29,400	23,500	26,200	21,000	20,700	---	---	24,000
	---	21,500	24,900	20,000	22,850	19,000	25,000	19,900	20,000	19,000	18,500	---	---	20,000
	---	18,000	---	17,134	21,050	17,000	21,000	16,125	16,000	18,000	16,900	---	---	17,575
	---	21,945	24,900	21,479	23,800	19,078	25,187	19,537	20,800	19,355	18,925	---	---	20,740
	---	5,215	2,970	5,600	5,327	3,636	5,316	4,299	5,530	1,528	3,287	---	---	4,792
	0	55	2	25	8	50	15	31	7	5	35	0	0	229
(15-19)	---	32,745	30,450	25,750	29,100	25,775	36,375	28,000	25,000	23,125	27,255	---	---	28,000
	---	26,222	23,500	22,600	27,000	22,150	29,500	23,400	24,225	21,300	23,000	---	---	23,750
	---	21,810	18,500	21,000	23,500	19,553	24,500	20,000	22,563	19,800	20,000	---	---	20,805
	---	28,450	24,150	23,663	27,986	23,089	30,910	25,086	23,863	21,430	24,584	---	---	25,169
	---	10,438	6,289	4,866	5,516	4,806	9,633	7,145	1,441	1,719	6,377	---	---	7,160
	0	50	4	44	17	68	10	47	4	5	39	0	0	288
(20-24)	---	40,436	47,000	35,750	35,800	33,225	34,000	30,000	44,516	41,250	30,150	---	---	33,075
	---	32,250	34,000	30,000	26,900	27,600	32,500	26,000	29,500	30,500	29,550	---	---	28,000
	---	27,275	19,000	23,769	21,375	22,670	29,000	23,126	24,860	25,000	22,443	---	---	23,829
	---	33,880	33,333	30,170	27,225	28,009	32,105	26,946	32,887	32,250	27,743	---	---	29,111
	---	8,796	14,012	8,266	6,471	6,686	9,074	6,186	9,986	8,846	8,632	---	---	7,867
	0	32	3	34	4	68	11	57	8	4	52	0	0	273
(25-29)	---	44,303	39,000	32,375	41,000	33,375	46,450	33,325	---	41,375	38,750	---	---	37,250
	---	36,500	30,300	25,350	35,250	29,370	44,250	26,520	21,000	32,000	26,500	---	---	30,000
	---	28,100	30,000	23,750	26,500	25,000	39,625	24,000	---	25,584	24,000	---	---	25,000
	---	37,005	33,671	28,639	34,800	30,212	43,294	28,910	21,000	33,183	38,189	---	---	32,698
	---	10,447	4,997	9,227	8,213	6,705	4,634	6,470	---	8,189	39,080	---	---	16,118
	0	32	7	18	8	56	8	40	1	5	26	0	0	201
(30-34)	---	46,925	41,475	34,476	46,050	35,500	---	42,000	---	50,000	38,400	---	---	42,500
	---	42,010	34,500	30,000	38,000	31,000	34,000	30,000	---	36,000	30,000	---	---	33,000
	---	35,250	32,500	26,000	30,400	28,400	---	27,275	---	29,275	23,400	---	---	28,000
	---	40,501	36,383	31,065	38,980	32,906	34,000	34,431	---	38,910	36,195	---	---	35,746
	---	10,320	5,246	9,679	7,716	8,842	---	11,248	---	12,652	20,002	---	---	11,855
	0	32	6	11	5	37	1	29	0	5	19	0	0	145
(35-39)	---	50,975	52,500	34,800	---	38,734	57,375	46,938	---	43,000	36,800	---	---	43,000
	---	43,100	40,000	27,800	44,050	32,250	32,290	37,600	62,000	38,000	35,000	---	---	35,500
	---	35,625	20,750	25,555	---	30,000	20,810	27,850	---	34,800	28,500	---	---	30,000
	---	43,639	37,750	30,426	44,050	33,831	36,860	36,744	62,000	38,600	32,733	---	---	36,786
	---	11,787	17,017	6,416	9,829	8,334	17,708	10,144	---	4,133	6,231	---	---	10,974
	0	16	4	9	2	26	6	19	1	3	6	0	0	92
(>=40)	---	45,000	49,500	33,800	---	40,000	---	43,375	---	63,625	45,000	---	---	45,000
	---	33,375	36,850	29,706	37,200	38,500	54,796	38,000	50,000	57,250	33,000	---	---	36,500
	---	27,725	28,750	26,450	---	34,000	---	29,375	---	41,132	23,625	---	---	29,544
	---	36,614	38,783	30,126	37,200	37,818	54,796	37,381	50,000	54,002	34,113	---	---	37,772
	---	12,857	10,509	4,303	---	7,656	6,783	8,656	---	12,358	10,902	---	---	10,705
	0	18	6	8	1	19	2	16	1	4	8	0	0	83
No Response	---	44,250	---	36,450	50,000	39,750	42,075	33,525	---	---	31,300	---	---	39,000
	---	37,000	---	28,500	49,408	23,100	30,553	26,623	33,500	23,450	24,919	---	---	29,000
	---	25,250	---	22,250	24,000	16,875	23,377	17,650	---	---	15,450	---	---	21,000
	---	45,287	---	30,100	41,136	27,410	32,002	26,545	33,500	23,450	23,629	---	---	33,570
	---	49,974	---	9,846	14,843	13,231	9,837	10,052	2,121	778	7,723	---	---	27,950
	0	21	0	6	3	10	4	10	2	2	9	0	0	67
TOTAL	---	40,000	39,600	30,000	37,000	32,352	39,617	32,000	32,750	40,000	30,000	---	---	33,972
	---	30,000	33,000	25,000	27,986	26,000	31,000	26,000	25,000	29,000	24,000	---	---	26,200
	---	22,150	27,500	21,000	24,000	20,350	24,790	21,110	20,563	22,725	19,455	---	---	21,000
	---	32,571	33,542	26,281	30,672	27,128	32,079	27,985	28,484	32,622	27,153	---	---	28,816
	---	17,404	9,891	7,927	8,782	8,389	10,967	9,196	11,763	12,983	17,192	---	---	12,649
	0	268	33	164	51	351	61	255	26	33	212	0	0	1,454

TABLE-5.8.1

SALARIES of POST-DOCTORAL CHEMISTS
by TYPE OF SCHOOL and YEARS SINCE BS
1981 Survey of ACS Members

SCHOOL TYPE	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL	
Doctorate	---	---	14,400	16,000	15,000	20,000	18,000	---	---	---	18,200	15,000	- 75th %-ile
	---	11,000	13,300	14,808	13,750	15,000	18,000	---	40,296	24,740	16,900	14,000	- Median
	---	---	12,000	14,000	12,000	14,500	17,000	---	---	---	13,200	12,125	- 25th %-ile
	---	11,000	12,974	15,617	14,850	16,500	17,667	---	40,296	24,740	16,100	14,260	- Mean
	---	0	2,272	3,026	4,486	3,041	577	---	---	---	2,850	3,872	- Std. Dev.
	0	2	75	28	7	3	3	0	1	1	4	124	- Count
Non-Doctorate	---	---	---	---	18,000	---	---	---	---	---	---	17,750	
	---	---	13,000	---	17,500	17,400	---	---	---	---	---	17,400	
	---	---	---	---	15,000	---	---	---	---	---	---	14,000	
	---	---	13,000	---	16,833	17,400	---	---	---	---	---	16,180	
	---	---	---	---	1,607	---	---	---	---	---	---	2,124	
	0	0	1	0	3	1	0	0	0	0	0	5	
Non-academic	---	---	20,775	22,750	21,250	---	---	---	---	---	---	21,600	
	---	---	20,200	19,850	17,000	28,000	---	14,000	---	---	12,000	19,200	
	---	---	15,221	15,125	13,800	---	---	---	---	---	---	15,000	
	---	---	18,701	19,892	18,367	28,000	---	14,000	---	---	12,000	18,962	
	---	---	4,404	5,236	6,469	---	---	---	---	---	---	5,153	
	0	0	18	12	6	1	0	1	0	0	1	39	
TOTAL	---	---	15,000	18,666	17,875	24,000	18,000	---	---	---	17,800	17,000	
	---	11,000	13,470	15,000	15,000	17,400	18,000	14,000	40,296	24,740	16,800	14,400	
	---	---	12,000	14,105	13,338	14,750	17,000	---	---	---	12,000	13,000	
	---	11,000	14,071	16,900	16,541	18,980	17,667	14,000	40,296	24,740	15,280	15,409	
	---	0	3,575	4,243	5,003	5,496	577	---	---	---	3,074	4,597	
	0	2	94	40	16	5	3	1	1	1	5	168	

TABLE-6.9.1

SALARIES of FULL-TIME EMPLOYED CHEMICAL ENGINEERS
by HIGHEST DEGREE and YEARS SINCE BS
1981 Survey of ACS Members

	YEARS SINCE BS										
HIGHEST DEGREE	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	TOTAL
Bachelors	23,550	27,500	29,600	37,400	44,000	45,150	47,250	50,000	51,750	54,180	---	45,336 - 75th %-ile
	22,350	24,200	27,000	30,800	37,000	39,565	39,120	40,800	41,000	40,000	16,000	36,000 - Median
	19,375	21,810	23,600	25,071	30,000	31,250	34,516	35,000	34,065	32,470	---	28,013 - 25th %-ile
	21,600	30,191	26,953	33,664	38,863	38,480	42,937	46,080	48,779	52,702	16,000	40,847 - Mean
	2,475	31,684	6,944	12,428	11,150	8,394	13,800	22,256	30,627	43,437	---	24,881 - Std. Dev.
	6	28	53	32	19	28	49	91	56	41	1	404 - Count
Masters	---	26,700	31,500	37,150	44,500	48,650	50,084	55,500	50,000	56,450	53,500	48,700
	---	25,800	28,060	34,580	37,450	38,500	45,000	44,000	47,400	42,100	46,000	40,000
	---	23,000	24,700	26,750	30,375	32,170	41,250	34,101	42,000	36,150	32,000	31,700
	---	25,167	28,147	33,079	36,895	40,611	47,356	47,125	50,521	53,099	46,355	42,822
	---	1,930	4,847	6,411	9,243	14,091	12,199	15,699	16,210	38,912	17,534	18,803
	0	3	31	28	20	22	24	62	35	25	13	263
Doctorate	---	---	35,250	40,000	45,000	61,000	58,225	55,700	62,125	60,000	60,500	50,259
	---	---	32,250	35,125	36,500	49,200	48,000	45,000	49,050	44,066	40,000	42,000
	---	---	27,750	31,545	33,000	36,000	41,250	40,000	41,493	35,750	33,000	34,754
	---	---	31,096	35,187	39,671	52,058	53,446	52,939	54,904	53,168	51,723	46,756
	---	---	5,375	8,556	11,446	19,730	26,902	28,201	25,909	39,943	29,391	23,899
	0	0	14	66	62	49	44	54	34	30	13	366
No Response	---	---	---	---	---	---	---	---	---	---	60,000	60,000
	---	---	---	---	---	---	---	---	---	---	41,000	41,000
	---	---	---	---	---	---	---	---	---	---	27,150	27,150
	---	---	---	---	---	---	---	---	---	---	42,367	42,367
	---	---	---	---	---	---	---	---	---	---	16,514	16,514
	0	0	0	0	0	0	0	0	0	0	6	6
TOTAL	23,550	26,700	31,575	39,285	44,900	50,800	50,112	53,300	53,000	55,590	55,000	49,200
	22,350	24,400	27,750	34,350	37,000	42,000	44,000	43,000	45,000	42,550	44,000	39,180
	19,375	21,900	24,000	26,875	32,200	35,252	37,000	35,500	37,500	34,625	31,000	31,564
	21,600	29,705	27,923	34,332	38,969	45,674	47,795	48,182	50,932	52,951	46,825	43,437
	2,475	30,100	6,243	9,279	10,941	17,133	19,968	22,410	25,946	40,793	22,915	23,202
	6	31	98	126	101	99	117	207	125	96	33	1,039

TABLE-7.1.0

EMPLOYMENT STATUS OF RESPONDENTS
by MAJOR FIELDS
1981 Survey of ACS Members

EMPLOYMENT STATUS	MAJOR FIELD: Chemists	Chemical Engineers	Non-Chemical	No Response	TOTAL	
Postdoctorate or Other Fellowship	191	3	6	2	202	-Count
	94.6%	1.5%	3.0%	1.0%	100.0%	-% of Row
	2.2%	0.3%	0.6%	0.9%	1.8%	-% of Col
Employed Full-time	8,270	1,067	976	122	10,435	
	79.3%	10.2%	9.4%	1.2%	100.0%	
	93.3%	92.6%	93.3%	59.5%	92.6%	
Unemployed Seeking	93	12	15	4	124	
	75.0%	9.7%	12.1%	3.2%	100.0%	
	1.0%	1.0%	1.4%	2.0%	1.1%	
Unemployed Not seeking	74	18	11	7	110	
	67.3%	16.4%	10.0%	6.4%	100.0%	
	0.8%	1.6%	1.1%	3.4%	1.0%	
Employed Part-time	93	22	21	4	140	
	66.4%	15.7%	15.0%	2.9%	100.0%	
	1.0%	1.9%	2.0%	2.0%	1.2%	
No Response	142	30	17	66	255	
	55.7%	11.8%	6.7%	25.9%	100.0%	
	1.6%	2.6%	1.6%	32.2%	2.3%	
TOTAL	8,863	1,152	1,046	205	11,266	
	78.7%	10.2%	9.3%	1.8%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.2.0

EMPLOYMENT STATUS OF CHEMISTS
by HIGHEST DEGREE EARNED
1981 Survey of ACS Members

EMPLOYMENT STATUS	HIGHEST DEGREE, Bachelors	Masters	Doctorate	No Response	TOTAL	
Postdoctorate or Other Fellowship	8	11	172	0	191	-Count
	4.2%	5.8%	90.1%	0.0%	100.0%	-% of Row
	0.4%	0.7%	3.5%	0.0%	2.2%	-% of Col
Employed Full-time	2,103	1,590	4,558	19	8,270	
	25.4%	19.2%	55.1%	0.2%	100.0%	
	93.4%	94.6%	92.8%	90.5%	93.3%	
Unemployed Seeking	36	20	37	0	93	
	38.7%	21.5%	39.8%	0.0%	100.0%	
	1.6%	1.2%	0.8%	0.0%	1.0%	
Unemployed Not Seeking	36	13	25	0	74	
	48.6%	17.6%	33.8%	0.0%	100.0%	
	1.6%	0.8%	0.5%	0.0%	0.8%	
Employed Part-time	32	17	44	0	93	
	34.4%	18.3%	47.3%	0.0%	100.0%	
	1.4%	1.0%	0.9%	0.0%	1.0%	
No Response	37	30	73	2	142	
	26.1%	21.1%	51.4%	1.4%	100.0%	
	1.6%	1.8%	1.5%	9.5%	1.6%	
TOTAL	2,252	1,681	4,909	21	8,863	
	25.4%	19.0%	55.4%	0.2%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.2.1

EMPLOYMENT STATUS OF CHEMISTS
by HIGHEST DEGREE EARNED - MEN Only
1981 Survey of ACS Members

EMPLOYMENT STATUS	HIGHEST DEGREE Bachelors	Masters	Doctorate	No Response	TOTAL	
Postdoctorate or Other Fellowship	4	8	138	0	150	-Count
	2.7%	5.3%	92.0%	0.0%	100.0%	-% of Row
	0.2%	0.6%	3.1%	0.0%	1.9%	-% of Col
Employed Full-time	1,745	1,340	4,219	18	7,322	
	23.8%	18.3%	57.6%	0.2%	100.0%	
	94.7%	95.4%	93.6%	90.0%	94.2%	
Unemployed Seeking	26	12	31	0	69	
	37.7%	17.4%	44.9%	0.0%	100.0%	
	1.4%	0.9%	0.7%	0.0%	0.9%	
Unemployed Not Seeking	19	5	21	0	45	
	42.2%	11.1%	46.7%	0.0%	100.0%	
	1.0%	0.4%	0.5%	0.0%	0.6%	
Employed Part-time	19	10	33	0	62	
	30.6%	16.1%	53.2%	0.0%	100.0%	
	1.0%	0.7%	0.7%	0.0%	0.8%	
No Response	29	29	67	2	127	
	22.8%	22.8%	52.8%	1.6%	100.0%	
	1.6%	2.1%	1.5%	10.0%	1.6%	
TOTAL	1,842	1,404	4,509	20	7,775	
	23.7%	18.1%	58.0%	0.3%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.2.2

EMPLOYMENT STATUS OF CHEMISTS
by HIGHEST DEGREE EARNED - WOMEN Only
1981 Survey of ACS Members

	HIGHEST DEGREE					
EMPLOYMENT STATUS	Bachelors	Masters	Doctorate	No Response	TOTAL	
Postdoctorate or Other Fellowship	4	2	33	0	39	-Count
	10.3%	5.1%	84.6%	0.0%	100.0%	-% of Row
	1.0%	0.8%	9.1%	0.0%	3.8%	-% of Col
Employed Full-time	340	240	301	1	882	
	38.5%	27.2%	34.1%	0.1%	100.0%	
	87.0%	90.2%	83.4%	100.0%	86.6%	
Unemployed Seeking	10	8	6	0	24	
	41.7%	33.3%	25.0%	0.0%	100.0%	
	2.6%	3.0%	1.7%	0.0%	2.4%	
Unemployed Not seeking	17	8	4	0	29	
	58.6%	27.6%	13.8%	0.0%	100.0%	
	4.3%	3.0%	1.1%	0.0%	2.8%	
Employed Part-time	12	7	11	0	30	
	40.0%	23.3%	36.7%	0.0%	100.0%	
	3.1%	2.6%	3.0%	0.0%	2.9%	
No Response	8	1	6	0	15	
	53.3%	6.7%	40.0%	0.0%	100.0%	
	2.0%	0.4%	1.7%	0.0%	1.5%	
TOTAL	391	266	361	1	1,019	
	38.4%	26.1%	35.4%	0.1%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.3.0

EMPLOYMENT STATUS OF CHEMISTS
by AGE
1981 Survey of ACS Members

EMPLOYMENT STATUS	AGE LEVEL (20-24)	(25-29)	(30-34)	(35-39)	(40-44)	(45-49)	(50-54)	(55-59)	(60-64)	(65-69)	(>=70)	No Respo	TOTAL	
Postdoctorate or Other fellowship	3	79	65	20	8	5	3	3	2	0	0	3	191	-Count
	1.6%	41.4%	34.0%	10.5%	4.2%	2.6%	1.6%	1.6%	1.0%	0.0%	0.0%	1.6%	100.0%	-% of Row
	1.8%	8.4%	4.7%	1.4%	0.7%	0.5%	0.3%	0.3%	0.3%	0.0%	0.0%	7.7%	2.2%	-% of Col
Employed Full-time	157	828	1,264	1,386	1,117	930	986	851	607	103	7	34	8,270	
	1.9%	10.0%	15.3%	16.8%	13.5%	11.2%	11.9%	10.3%	7.3%	1.2%	0.1%	0.4%	100.0%	
	91.8%	88.5%	91.1%	95.5%	95.9%	96.4%	96.4%	93.1%	92.7%	71.0%	63.6%	87.2%	93.3%	
Unemployed Seeking	4	8	21	12	9	10	11	14	2	2	0	0	93	
	4.3%	8.6%	22.6%	12.9%	9.7%	10.8%	11.8%	15.1%	2.2%	2.2%	0.0%	0.0%	100.0%	
	2.3%	0.9%	1.5%	0.8%	0.8%	1.0%	1.1%	1.5%	0.3%	1.4%	0.0%	0.0%	1.0%	
Unemployed Not seeking	3	6	13	2	5	5	2	12	13	9	3	1	74	
	4.1%	8.1%	17.6%	2.7%	6.8%	6.8%	2.7%	16.2%	17.6%	12.2%	4.1%	1.4%	100.0%	
	1.8%	0.6%	0.9%	0.1%	0.4%	0.5%	0.2%	1.3%	2.0%	6.2%	27.3%	2.6%	0.8%	
Employed Part-time	1	8	4	7	11	2	8	12	18	21	1	0	93	
	1.1%	8.6%	4.3%	7.5%	11.8%	2.2%	8.6%	12.9%	19.4%	22.6%	1.1%	0.0%	100.0%	
	0.6%	0.9%	0.3%	0.5%	0.9%	0.2%	0.8%	1.3%	2.7%	14.5%	9.1%	0.0%	1.0%	
No Response	3	7	20	25	15	13	13	22	13	10	0	1	142	
	2.1%	4.9%	14.1%	17.6%	10.6%	9.2%	9.2%	15.5%	9.2%	7.0%	0.0%	0.7%	100.0%	
	1.8%	0.7%	1.4%	1.7%	1.3%	1.3%	1.3%	2.4%	2.0%	6.9%	0.0%	2.6%	1.6%	
TOTAL	171	936	1,387	1,452	1,165	965	1,023	914	655	145	11	39	8,863	
	1.9%	10.6%	15.6%	16.4%	13.1%	10.9%	11.5%	10.3%	7.4%	1.6%	0.1%	0.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.4.0

EMPLOYMENT STATUS OF CHEMISTS
by MINORITY GROUP CLASSIFICATION
1981 Survey of ACS Members

	RACE								
EMPLOYMENT STATUS	White	Black	American Indian	Asian/ Pacific	Hispanic	None of Above	No Response	TOTAL	
Postdoctorate or Other fellowship	154	2	0	30	2	1	2	191	-Count
	80.6%	1.0%	0.0%	15.7%	1.0%	0.5%	1.0%	100.0%	-% of Row
	1.9%	1.8%	0.0%	5.9%	3.4%	3.2%	3.3%	2.2%	-% of Col
Employed Full-time	7,552	109	12	458	54	29	56	8,270	
	91.3%	1.3%	0.1%	5.5%	0.7%	0.4%	0.7%	100.0%	
	93.5%	96.5%	92.3%	90.3%	91.5%	93.5%	93.3%	93.3%	
Unemployed Seeking	89	0	0	4	0	0	0	93	
	95.7%	0.0%	0.0%	4.3%	0.0%	0.0%	0.0%	100.0%	
	1.1%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	1.0%	
Unemployed Not Seeking	70	0	0	4	0	0	0	74	
	94.6%	0.0%	0.0%	5.4%	0.0%	0.0%	0.0%	100.0%	
	0.9%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.8%	
Employed Part-time	88	1	1	0	2	0	1	93	
	94.6%	1.1%	1.1%	0.0%	2.2%	0.0%	1.1%	100.0%	
	1.1%	0.9%	7.7%	0.0%	3.4%	0.0%	1.7%	1.0%	
No Response	127	1	0	11	1	1	1	142	
	89.4%	0.7%	0.0%	7.7%	0.7%	0.7%	0.7%	100.0%	
	1.6%	0.9%	0.0%	2.2%	1.7%	3.2%	1.7%	1.6%	
TOTAL	8,080	113	13	507	59	31	60	8,863	
	91.2%	1.3%	0.1%	5.7%	0.7%	0.3%	0.7%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.5.0

EMPLOYMENT STATUS OF CHEMISTS
by CITIZENSHIP
1981 Survey of ACS Members

	CITIZENSHIP					
EMPLOYMENT STATUS	US Citizen	Permanent Resident	Other	No Response	TOTAL	
Postdoctorate or Other fellowship	154	18	18	1	191	-Count
	80.6%	9.4%	9.4%	0.5%	100.0%	-% of Row
	1.8%	5.2%	35.3%	4.2%	2.2%	-% of Col
Employed Full-time	7,902	314	32	22	8,270	
	95.6%	3.8%	0.4%	0.3%	100.0%	
	93.6%	91.5%	62.7%	91.7%	93.3%	
Unemployed Seeking	88	5	0	0	93	
	94.6%	5.4%	0.0%	0.0%	100.0%	
	1.0%	1.5%	0.0%	0.0%	1.0%	
Unemployed Not seeking	72	1	0	1	74	
	97.3%	1.4%	0.0%	1.4%	100.0%	
	0.9%	0.3%	0.0%	4.2%	0.8%	
Employed Part-time	93	0	0	0	93	
	100.0%	0.0%	0.0%	0.0%	100.0%	
	1.1%	0.0%	0.0%	0.0%	1.0%	
No Response	136	5	1	0	142	
	95.8%	3.5%	0.7%	0.0%	100.0%	
	1.6%	1.5%	2.0%	0.0%	1.6%	
TOTAL	8,445	343	51	24	8,863	
	95.3%	3.9%	0.6%	0.3%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.6.0

EMPLOYMENT STATUS OF CHEMISTS
by EMPLOYER TYPE
1981 Survey of ACS Members

EMPLOYMENT STATUS	EMPLOYER TYPE: Industry	Govern-ment	Other Non-acad.	College & Univer.	High School	No Response	TOTAL	
Postdoctorate or Other Fellowship	11	24	11	139	0	6	191	-Count
	5.8%	12.6%	5.8%	72.8%	0.0%	3.1%	100.0%	-% of Row
	0.2%	2.7%	2.4%	7.3%	0.0%	4.9%	2.2%	-% of Col
Employed Full-time	5,197	804	396	1,687	81	105	8,270	
	62.8%	9.7%	4.8%	20.4%	1.0%	1.3%	100.0%	
	96.2%	91.6%	86.7%	88.1%	91.0%	86.1%	93.3%	
Unemployed Seeking	58	7	14	13	1	0	93	
	62.4%	7.5%	15.1%	14.0%	1.1%	0.0%	100.0%	
	1.1%	0.8%	3.1%	0.7%	1.1%	0.0%	1.0%	
Unemployed Not Seeking	39	14	3	11	1	6	74	
	52.7%	18.9%	4.1%	14.9%	1.4%	8.1%	100.0%	
	0.7%	1.6%	0.7%	0.6%	1.1%	4.9%	0.8%	
Employed Part-time	30	10	20	29	4	0	93	
	32.3%	10.8%	21.5%	31.2%	4.3%	0.0%	100.0%	
	0.6%	1.1%	4.4%	1.5%	4.5%	0.0%	1.0%	
No Response	67	19	13	36	2	5	142	
	47.2%	13.4%	9.2%	25.4%	1.4%	3.5%	100.0%	
	1.2%	2.2%	2.8%	1.9%	2.2%	4.1%	1.6%	
TOTAL	5,402	878	457	1,915	89	122	8,863	
	61.0%	9.9%	5.2%	21.6%	1.0%	1.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.6.1

EMPLOYMENT STATUS OF CHEMISTS
by NON-ACADEMIC EMPLOYER
1981 Survey of ACS Members

NON-ACADEMIC EMPLOYER

EMPLOYMENT STATUS	Mfg Chem	Mfg Coat	Mfg Food	Mfg Metals	Mfg Paper	Mfg Petro.	Mfg Pharm	Mfg Rubber	Mfg Other	Non-Mfg	Federal Govt	State Govt	Hospitals	Non-Prof	Self-empl.	Other Empl.	TOTAL	
Postdoctorate or other fellowship	1	1	1	0	0	1	2	0	5	0	19	5	3	8	0	0	46	-Count
	2.2%	2.2%	2.2%	0.0%	0.0%	2.2%	4.3%	0.0%	10.9%	0.0%	41.3%	10.9%	6.5%	17.4%	0.0%	0.0%	100.0%	-% of Row
	0.1%	0.3%	0.5%	0.0%	0.0%	0.3%	0.2%	0.0%	0.5%	0.0%	2.9%	2.3%	2.1%	3.6%	0.0%	0.0%	0.7%	-% of Col
Employed Full-time	1,635	314	193	155	88	356	889	150	1,034	383	601	203	125	202	33	36	6,397	
	25.6%	4.9%	3.0%	2.4%	1.4%	5.6%	13.9%	2.3%	16.2%	6.0%	9.4%	3.2%	2.0%	3.2%	0.5%	0.6%	100.0%	
	96.8%	96.0%	91.0%	95.7%	98.9%	97.5%	96.9%	93.2%	95.9%	95.3%	91.5%	91.9%	86.8%	91.8%	63.5%	87.8%	95.0%	
Unemployed Seeking	14	1	6	3	0	3	8	2	17	4	5	2	7	4	0	3	79	
	17.7%	1.3%	7.6%	3.8%	0.0%	3.8%	10.1%	2.5%	21.5%	5.1%	6.3%	2.5%	8.9%	5.1%	0.0%	3.8%	100.0%	
	0.8%	0.3%	2.8%	1.9%	0.0%	0.8%	0.9%	1.2%	1.6%	1.0%	0.8%	0.9%	4.9%	1.8%	0.0%	7.3%	1.2%	
Unemployed Not seeking	8	4	3	2	0	2	5	1	11	3	8	6	2	0	1	0	56	
	14.3%	7.1%	5.4%	3.6%	0.0%	3.6%	8.9%	1.8%	19.6%	5.4%	14.3%	10.7%	3.6%	0.0%	1.8%	0.0%	100.0%	
	0.5%	1.2%	1.4%	1.2%	0.0%	0.5%	0.5%	0.6%	1.0%	0.7%	1.2%	2.7%	1.4%	0.0%	1.9%	0.0%	0.8%	
Employed Part-time	6	3	3	0	0	1	4	3	3	7	10	0	4	1	13	2	60	
	10.0%	5.0%	5.0%	0.0%	0.0%	1.7%	6.7%	5.0%	5.0%	11.7%	16.7%	0.0%	6.7%	1.7%	21.7%	3.3%	100.0%	
	0.4%	0.9%	1.4%	0.0%	0.0%	0.3%	0.4%	1.9%	0.3%	1.7%	1.5%	0.0%	2.8%	0.5%	25.0%	4.9%	0.9%	
No Response	25	4	6	2	1	2	9	5	8	5	14	5	3	5	5	0	99	
	25.3%	4.0%	6.1%	2.0%	1.0%	2.0%	9.1%	5.1%	8.1%	5.1%	14.1%	5.1%	3.0%	5.1%	5.1%	0.0%	100.0%	
	1.5%	1.2%	2.8%	1.2%	1.1%	0.5%	1.0%	3.1%	0.7%	1.2%	2.1%	2.3%	2.1%	2.3%	9.6%	0.0%	1.5%	
TOTAL	1,689	327	212	162	89	365	917	161	1,078	402	657	221	144	220	52	41	6,737	
	25.1%	4.9%	3.1%	2.4%	1.3%	5.4%	13.6%	2.4%	16.0%	6.0%	9.8%	3.3%	2.1%	3.3%	0.8%	0.6%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.6.2

EMPLOYMENT STATUS OF CHEMISTS
by ACADEMIC EMPLOYER
1981 Survey of ACS Members

	ACADEMIC EMPLOYER										
EMPLOYMENT STATUS	Private Doctorate	Private Master	Private Bachelor	Private Assoc.	Public Doctor.	Public Master	Public Bachelors	Public Assoc.	High School	TOTAL	
Postdoctorate or other fellowship	59	3	1	0	75	1	0	0	0	139	-Count
	42.4%	2.2%	0.7%	0.0%	54.0%	0.7%	0.0%	0.0%	0.0%	100.0%	-% of Row
	15.0%	4.5%	0.4%	0.0%	9.5%	0.7%	0.0%	0.0%	0.0%	6.9%	-% of Col
Employed Full-time	317	59	221	4	677	141	149	119	81	1,768	
	17.9%	3.3%	12.5%	0.2%	38.3%	8.0%	8.4%	6.7%	4.6%	100.0%	
	80.5%	88.1%	95.3%	80.0%	85.5%	95.9%	96.8%	96.0%	91.0%	88.2%	
Unemployed Seeking	3	0	2	0	7	1	0	0	1	14	
	21.4%	0.0%	14.3%	0.0%	50.0%	7.1%	0.0%	0.0%	7.1%	100.0%	
	0.8%	0.0%	0.9%	0.0%	0.9%	0.7%	0.0%	0.0%	1.1%	0.7%	
Unemployed Not seeking	1	0	0	0	7	0	2	1	1	12	
	8.3%	0.0%	0.0%	0.0%	58.3%	0.0%	16.7%	8.3%	8.3%	100.0%	
	0.3%	0.0%	0.0%	0.0%	0.9%	0.0%	1.3%	0.8%	1.1%	0.6%	
Employed Part-time	4	4	3	0	11	3	1	3	4	33	
	12.1%	12.1%	9.1%	0.0%	33.3%	9.1%	3.0%	9.1%	12.1%	100.0%	
	1.0%	6.0%	1.3%	0.0%	1.4%	2.0%	0.6%	2.4%	4.5%	1.6%	
No Response	10	1	5	1	15	1	2	1	2	38	
	26.3%	2.6%	13.2%	2.6%	39.5%	2.6%	5.3%	2.6%	5.3%	100.0%	
	2.5%	1.5%	2.2%	20.0%	1.9%	0.7%	1.3%	0.8%	2.2%	1.9%	
TOTAL	394	67	232	5	792	147	154	124	89	2,004	
	19.7%	3.3%	11.6%	0.2%	39.5%	7.3%	7.7%	6.2%	4.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.7.0

EMPLOYMENT STATUS OF CHEMISTS
by NON-ACADEMIC WORK FUNCTION
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION

EMPLOYMENT STATUS	R&D Mgmt	Basic Research	Applied R&D	Gen. Mgmt	Marketing	Prod. QC	Forensic	Writing/ Editing	Data Pro.	Consult- ing	Other	No Respo	TOTAL
Postdoctorate or other fellowship	1	27	10	0	1	2	1	0	0	0	1	3	46 -Count
	2.2%	58.7%	21.7%	0.0%	2.2%	4.3%	2.2%	0.0%	0.0%	0.0%	2.2%	6.5%	100.0% -% of Row
	0.1%	2.9%	0.5%	0.0%	0.3%	0.3%	0.3%	0.0%	0.0%	0.0%	0.6%	1.1%	0.7% -% of Col
Employed Full-time	1,137	875	2,073	459	352	569	360	67	20	83	151	251	6,397
	17.8%	13.7%	32.4%	7.2%	5.5%	8.9%	5.6%	1.0%	0.3%	1.3%	2.4%	3.9%	100.0%
	96.7%	94.1%	96.1%	96.0%	94.9%	95.3%	93.0%	90.5%	100.0%	74.8%	91.5%	92.6%	95.0%
Unemployed Seeking	9	4	22	8	4	12	8	1	0	2	3	6	79
	11.4%	5.1%	27.8%	10.1%	5.1%	15.2%	10.1%	1.3%	0.0%	2.5%	3.8%	7.6%	100.0%
	0.8%	0.4%	1.0%	1.7%	1.1%	2.0%	2.1%	1.4%	0.0%	1.8%	1.8%	2.2%	1.2%
Unemployed Not seeking	5	7	16	4	2	6	8	2	0	1	1	4	56
	8.9%	12.5%	28.6%	7.1%	3.6%	10.7%	14.3%	3.6%	0.0%	1.8%	1.8%	7.1%	100.0%
	0.4%	0.8%	0.7%	0.8%	0.5%	1.0%	2.1%	2.7%	0.0%	0.9%	0.6%	1.5%	0.8%
Employed Part-time	5	5	13	2	2	2	3	4	0	19	3	2	60
	8.3%	8.3%	21.7%	3.3%	3.3%	3.3%	5.0%	6.7%	0.0%	31.7%	5.0%	3.3%	100.0%
	0.4%	0.5%	0.6%	0.4%	0.5%	0.3%	0.8%	5.4%	0.0%	17.1%	1.8%	0.7%	0.9%
No Response	19	12	23	5	10	6	7	0	0	6	6	5	99
	19.2%	12.1%	23.2%	5.1%	10.1%	6.1%	7.1%	0.0%	0.0%	6.1%	6.1%	5.1%	100.0%
	1.6%	1.3%	1.1%	1.0%	2.7%	1.0%	1.8%	0.0%	0.0%	5.4%	3.6%	1.8%	1.5%
TOTAL	1,176	930	2,157	478	371	597	387	74	20	111	165	271	6,737
	17.5%	13.8%	32.0%	7.1%	5.5%	8.9%	5.7%	1.1%	0.3%	1.6%	2.4%	4.0%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

TABLE-7.8.0

EMPLOYMENT STATUS OF CHEMISTS
by WORK SPECIALTY
1981 Survey of ACS Members

	SPECIALTY											
EMPLOYMENT STATUS	Biochem	Agr-Food	Analytic	Enviro.	Organic	Phar-Med	Physical	Theore.	Poly-Mac	Other Chemical	TOTAL	
Postdoctorate or Other fellowship	62	4	10	6	42	15	26	4	6	16	191	-Count
	32.5%	2.1%	5.2%	3.1%	22.0%	7.9%	13.6%	2.1%	3.1%	8.4%	100.0%	-% of Row
	9.4%	1.0%	0.6%	1.0%	2.8%	1.9%	3.2%	6.9%	0.6%	1.3%	2.2%	-% of Col
Employed Full-time	561	349	1,691	571	1,405	732	763	50	1,005	1,143	8,270	
	6.8%	4.2%	20.4%	6.9%	17.0%	8.9%	9.2%	0.6%	12.2%	13.8%	100.0%	
	84.6%	91.1%	95.1%	94.2%	93.8%	93.7%	92.6%	86.2%	95.1%	94.1%	93.3%	
Unemployed Seeking	7	4	22	5	9	12	6	1	13	14	93	
	7.5%	4.3%	23.7%	5.4%	9.7%	12.9%	6.5%	1.1%	14.0%	15.1%	100.0%	
	1.1%	1.0%	1.2%	0.8%	0.6%	1.5%	0.7%	1.7%	1.2%	1.2%	1.0%	
Unemployed Not seeking	6	7	16	6	7	7	9	0	8	8	74	
	8.1%	9.5%	21.6%	8.1%	9.5%	9.5%	12.2%	0.0%	10.8%	10.8%	00.0%	
	0.9%	1.8%	0.9%	1.0%	0.5%	0.9%	1.1%	0.0%	0.8%	0.7%	0.8%	
Employed Part-time	10	8	11	7	12	9	11	1	8	16	93	
	10.8%	8.6%	11.8%	7.5%	12.9%	9.7%	11.8%	1.1%	8.6%	17.2%	100.0%	
	1.5%	2.1%	0.6%	1.2%	0.8%	1.2%	1.3%	1.7%	0.8%	1.3%	1.0%	
No Response	17	11	28	11	23	6	9	2	17	18	142	
	12.0%	7.7%	19.7%	7.7%	16.2%	4.2%	6.3%	1.4%	12.0%	12.7%	100.0%	
	2.6%	2.9%	1.6%	1.8%	1.5%	0.8%	1.1%	3.4%	1.6%	1.5%	1.6%	
TOTAL	663	383	1,778	606	1,498	781	824	58	1,057	1,215	8,863	
	7.5%	4.3%	20.1%	6.8%	16.9%	8.8%	9.3%	0.7%	11.9%	13.7%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-7.9.0

EMPLOYMENT STATUS OF CHEMISTS
by GEOGRAPHIC REGION
1981 Survey of ACS Members

EMPLOYMENT STATUS	REGION										TOTAL	
	Pacific	Mountain	W.N. Central	W.S. Central	E.N. Central	E.S. Central	Mid Atlantic	So. Atlantic	New England	No Response		
Postdoctorate or Other followship	28	17	8	5	32	5	35	32	24	5	191	-Count
	14.7%	8.9%	4.2%	2.6%	16.8%	2.6%	18.3%	16.8%	12.6%	2.6%	100.0%	-% of Row
	2.8%	5.5%	1.6%	0.8%	1.7%	1.7%	1.6%	2.4%	3.8%	3.7%	2.2%	-% of Col
Employed Full-time	906	269	459	631	1,781	276	2,028	1,206	593	121	8,270	
	11.0%	3.3%	5.6%	7.6%	21.5%	3.3%	24.5%	14.6%	7.2%	1.5%	100.0%	
	90.5%	87.6%	94.3%	95.8%	94.1%	96.2%	94.6%	92.0%	92.7%	89.0%	93.3%	
Unemployed Seeking	17	4	2	6	18	0	22	18	5	1	93	
	18.3%	4.3%	2.2%	6.5%	19.4%	0.0%	23.7%	19.4%	5.4%	1.1%	100.0%	
	1.7%	1.3%	0.4%	0.9%	1.0%	0.0%	1.0%	1.4%	0.8%	0.7%	1.0%	
Unemployed Not seeking	13	4	3	3	12	3	14	15	3	4	74	
	17.6%	5.4%	4.1%	4.1%	16.2%	4.1%	18.9%	20.3%	4.1%	5.4%	100.0%	
	1.3%	1.3%	0.6%	0.5%	0.6%	1.0%	0.7%	1.1%	0.5%	2.9%	0.8%	
Employed Part-time	20	7	3	6	15	0	16	19	6	1	93	
	21.5%	7.5%	3.2%	6.5%	16.1%	0.0%	17.2%	20.4%	6.5%	1.1%	100.0%	
	2.0%	2.3%	0.6%	0.9%	0.8%	0.0%	0.7%	1.4%	0.9%	0.7%	1.0%	
No Response	17	6	12	8	34	3	28	21	9	4	142	
	12.0%	4.2%	8.5%	5.6%	23.9%	2.1%	19.7%	14.8%	6.3%	2.8%	100.0%	
	1.7%	2.0%	2.5%	1.2%	1.8%	1.0%	1.3%	1.6%	1.4%	2.9%	1.6%	
TOTAL	1,001	307	487	659	1,892	287	2,143	1,311	640	136	8,863	
	11.3%	3.5%	5.5%	7.4%	21.3%	3.2%	24.2%	14.8%	7.2%	1.5%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-8.1.0

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS UNEMPLOYED ON MARCH 1, 1981
by HIGHEST DEGREE EARNED
1981 Survey of ACS Members

	HIGHEST DEGREE					
MONTHS UNEMPLOYED	Bachelors	Masters	Doctorate	No Response	TOTAL	
(0-1)	9	3	7	0	19	-Count
	47.4%	15.8%	36.8%	0.0%	100.0%	-% of Row
	25.0%	15.0%	18.9%	***.*%	20.4%	-% of Col
(2-4)	6	5	16	0	27	
	22.2%	18.5%	59.3%	0.0%	100.0%	
	16.7%	25.0%	43.2%	***.*%	29.0%	
(5-7)	5	4	4	0	13	
	38.5%	30.8%	30.8%	0.0%	100.0%	
	13.9%	20.0%	10.8%	***.*%	14.0%	
(8-10)	9	3	2	0	14	
	64.3%	21.4%	14.3%	0.0%	100.0%	
	25.0%	15.0%	5.4%	***.*%	15.1%	
(11-13)	1	2	1	0	4	
	25.0%	50.0%	25.0%	0.0%	100.0%	
	2.8%	10.0%	2.7%	***.*%	4.3%	
(14-18)	2	1	1	0	4	
	50.0%	25.0%	25.0%	0.0%	100.0%	
	5.6%	5.0%	2.7%	***.*%	4.3%	
(19-24)	1	1	0	0	2	
	50.0%	50.0%	0.0%	0.0%	100.0%	
	2.8%	5.0%	0.0%	***.*%	2.2%	
(25-36)	2	0	1	0	3	
	66.7%	0.0%	33.3%	0.0%	100.0%	
	5.6%	0.0%	2.7%	***.*%	3.2%	
(>=37)	1	1	5	0	7	
	14.3%	14.3%	71.4%	0.0%	100.0%	
	2.8%	5.0%	13.5%	***.*%	7.5%	
TOTAL	36	20	37	0	93	
	38.7%	21.5%	39.8%	0.0%	100.0%	
	100.0%	100.0%	100.0%	***.*%	100.0%	

TABLE-8.1.1

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS UNEMPLOYED ON MARCH 1, 1981
by HIGHEST DEGREE EARNED - MEN Only
1981 Survey of ACS Members

	HIGHEST DEGREE					
MONTHS UNEMPLOYED	Bachelos	Masters	Doctorate	No Response	TOTAL	
(0-1)	6	3	6	0	15	-Count
	40.0%	20.0%	40.0%	0.0%	100.0%	-% of Row
	23.1%	25.0%	19.4%	***.*%	21.7%	-% of Col
(2-4)	6	3	12	0	21	
	28.6%	14.3%	57.1%	0.0%	100.0%	
	23.1%	25.0%	38.7%	***.*%	30.4%	
(5-7)	3	2	4	0	9	
	33.3%	22.2%	44.4%	0.0%	100.0%	
	11.5%	16.7%	12.9%	***.*%	13.0%	
(8-10)	5	2	2	0	9	
	55.6%	22.2%	22.2%	0.0%	100.0%	
	19.2%	16.7%	6.5%	***.*%	13.0%	
(11-13)	1	1	1	0	3	
	33.3%	33.3%	33.3%	0.0%	100.0%	
	3.8%	8.3%	3.2%	***.*%	4.3%	
(14-18)	2	0	0	0	2	
	100.0%	0.0%	0.0%	0.0%	100.0%	
	7.7%	0.0%	0.0%	***.*%	2.9%	
(19-24)	0	0	0	0	0	
	***.*%	***.*%	***.*%	***.*%	***.*%	
	0.0%	0.0%	0.0%	***.*%	0.0%	
(25-36)	2	0	1	0	3	
	66.7%	0.0%	33.3%	0.0%	100.0%	
	7.7%	0.0%	3.2%	***.*%	4.3%	
(>=37)	1	1	5	0	7	
	14.3%	14.3%	71.4%	0.0%	100.0%	
	3.8%	8.3%	16.1%	***.*%	10.1%	
TOTAL	26	12	31	0	69	
	37.7%	17.4%	44.9%	0.0%	100.0%	
	100.0%	100.0%	100.0%	***.*%	100.0%	

TABLE-8.1.2

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS UNEMPLOYED ON MARCH 1, 1981
by HIGHEST DEGREE EARNED - WOMEN Only
1981 Survey of ACS Members

	HIGHEST DEGREE					
MONTHS UNEMPLOYED	Bachelors	Masters	Doctorate	No Response	TOTAL	
(0-1)	3	0	1	0	4	-Count
	75.0%	0.0%	25.0%	0.0%	100.0%	-% of Row
	30.0%	0.0%	16.7%	***.*%	16.7%	-% of Col
(2-4)	0	2	4	0	6	
	0.0%	33.3%	66.7%	0.0%	100.0%	
	0.0%	25.0%	66.7%	***.*%	25.0%	
(5-7)	2	2	0	0	4	
	50.0%	50.0%	0.0%	0.0%	100.0%	
	20.0%	25.0%	0.0%	***.*%	16.7%	
(8-10)	4	1	0	0	5	
	80.0%	20.0%	0.0%	0.0%	100.0%	
	40.0%	12.5%	0.0%	***.*%	20.8%	
(11-13)	0	1	0	0	1	
	0.0%	100.0%	0.0%	0.0%	100.0%	
	0.0%	12.5%	0.0%	***.*%	4.2%	
(14-18)	0	1	1	0	2	
	0.0%	50.0%	50.0%	0.0%	100.0%	
	0.0%	12.5%	16.7%	***.*%	8.3%	
(19-24)	1	1	0	0	2	
	50.0%	50.0%	0.0%	0.0%	100.0%	
	10.0%	12.5%	0.0%	***.*%	8.3%	
(25-36)	0	0	0	0	0	
	***.*%	***.*%	***.*%	***.*%	***.*%	
	0.0%	0.0%	0.0%	***.*%	0.0%	
(>=37)	0	0	0	0	0	
	***.*%	***.*%	***.*%	***.*%	***.*%	
	0.0%	0.0%	0.0%	***.*%	0.0%	
TOTAL	10	8	6	0	24	
	41.7%	33.3%	25.0%	0.0%	100.0%	
	100.0%	100.0%	100.0%	***.*%	100.0%	

TABLE-8.2.0

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS UNEMPLOYED ON MARCH 1, 1981
by GEOGRAPHIC REGION
1981 Survey of ACS Members

	REGION										
MONTHS UNEMPLOYED	Pacific	Mountain	W.N. Central	W.S. Central	E.N. Central	E.S. Central	Mid Atlantic	So. Atlantic	New England	No Response	TOTAL
(0-1)	6	1	0	1	3	0	5	3	0	0	19 -Count
	31.6%	5.3%	0.0%	5.3%	15.8%	0.0%	26.3%	15.8%	0.0%	0.0%	100.0% -% of Row
	35.3%	25.0%	0.0%	16.7%	16.7%	***.*%	22.7%	16.7%	0.0%	0.0%	20.4% -% of Col
(2-4)	2	1	0	3	5	0	7	6	3	0	27
	7.4%	3.7%	0.0%	11.1%	18.5%	0.0%	25.9%	22.2%	11.1%	0.0%	100.0%
	11.8%	25.0%	0.0%	50.0%	27.8%	***.*%	31.8%	33.3%	60.0%	0.0%	29.0%
(5-7)	1	1	0	1	2	0	3	4	1	0	13
	7.7%	7.7%	0.0%	7.7%	15.4%	0.0%	23.1%	30.8%	7.7%	0.0%	100.0%
	5.9%	25.0%	0.0%	16.7%	11.1%	***.*%	13.6%	22.2%	20.0%	0.0%	14.0%
(8-10)	4	1	1	0	3	0	2	2	1	0	14
	28.6%	7.1%	7.1%	0.0%	21.4%	0.0%	14.3%	14.3%	7.1%	0.0%	100.0%
	23.5%	25.0%	50.0%	0.0%	16.7%	***.*%	9.1%	11.1%	20.0%	0.0%	15.1%
(11-13)	0	0	0	0	0	0	4	0	0	0	4
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	***.*%	18.2%	0.0%	0.0%	0.0%	4.3%
(14-18)	0	0	0	0	2	0	1	1	0	0	4
	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	25.0%	25.0%	0.0%	0.0%	100.0%
	0.0%	0.0%	0.0%	0.0%	11.1%	***.*%	4.5%	5.6%	0.0%	0.0%	4.3%
(19-24)	1	0	0	0	1	0	0	0	0	0	2
	50.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
	5.9%	0.0%	0.0%	0.0%	5.6%	***.*%	0.0%	0.0%	0.0%	0.0%	2.2%
(25-36)	1	0	0	1	0	0	0	1	0	0	3
	33.3%	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	100.0%
	5.9%	0.0%	0.0%	16.7%	0.0%	***.*%	0.0%	5.6%	0.0%	0.0%	3.2%
(>=37)	2	0	1	0	2	0	0	1	0	1	7
	28.6%	0.0%	14.3%	0.0%	28.6%	0.0%	0.0%	14.3%	0.0%	14.3%	100.0%
	11.8%	0.0%	50.0%	0.0%	11.1%	***.*%	0.0%	5.6%	0.0%	100.0%	7.5%
TOTAL	17	4	2	6	18	0	22	18	5	1	93
	18.3%	4.3%	2.2%	6.5%	19.4%	0.0%	23.7%	19.4%	5.4%	1.1%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	100.0%	100.0%

TABLE-8.3.0

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS UNEMPLOYED ON MARCH 1, 1981
by AGE
1981 Survey of ACS Members

	AGE LEVEL											
MONTHS UNEMPLOYED	(20-24)	(25-29)	(30-34)	(35-39)	(40-44)	(45-49)	(50-54)	(55-59)	(60-64)	(65-69)	(>=70)	No Respo	TOTAL
(0-1)	3 15.8% 75.0%	3 15.8% 37.5%	5 26.3% 23.8%	0 0.0% 0.0%	3 15.8% 33.3%	1 5.3% 10.0%	2 10.5% 18.2%	1 5.3% 7.1%	1 5.3% 50.0%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% ***.*%	19 -Count 100.0% -% of Row 20.4% -% of Col
(2-4)	0 0.0% 0.0%	2 7.4% 25.0%	3 11.1% 14.3%	8 29.6% 66.7%	3 11.1% 33.3%	3 11.1% 30.0%	2 7.4% 18.2%	6 22.2% 42.9%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% ***.*%	27 100.0% 29.0%
(5-7)	0 0.0% 0.0%	1 7.7% 12.5%	4 30.8% 19.0%	2 15.4% 16.7%	0 0.0% 0.0%	0 0.0% 0.0%	3 23.1% 27.3%	3 23.1% 21.4%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% ***.*%	13 100.0% 14.0%
(8-10)	1 7.1% 25.0%	1 7.1% 12.5%	6 42.9% 28.6%	1 7.1% 8.3%	0 0.0% 0.0%	4 28.6% 40.0%	0 0.0% 0.0%	1 7.1% 7.1%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% ***.*%	14 100.0% 15.1%
(11-13)	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 25.0% 9.1%	2 50.0% 14.3%	0 0.0% 0.0%	1 25.0% 50.0%	0 0.0% ***.*%	0 0.0% ***.*%	4 100.0% 4.3%
(14-18)	0 0.0% 0.0%	0 0.0% 0.0%	2 50.0% 9.5%	0 0.0% 0.0%	1 25.0% 11.1%	1 25.0% 10.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% ***.*%	4 100.0% 4.3%
(19-24)	0 0.0% 0.0%	1 50.0% 12.5%	1 50.0% 4.8%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% ***.*%	2 100.0% 2.2%
(25-36)	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 8.3%	0 0.0% 0.0%	1 33.3% 10.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 50.0%	0 0.0% ***.*%	0 0.0% ***.*%	3 100.0% 3.2%
(>=37)	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 28.6% 22.2%	0 0.0% 0.0%	3 42.9% 27.3%	1 14.3% 7.1%	1 14.3% 50.0%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% ***.*%	7 100.0% 7.5%
TOTAL	4 4.3% 100.0%	8 8.6% 100.0%	21 22.6% 100.0%	12 12.9% 100.0%	9 9.7% 100.0%	10 10.8% 100.0%	11 11.8% 100.0%	14 15.1% 100.0%	2 2.2% 100.0%	2 2.2% 100.0%	0 0.0% ***.*%	0 0.0% ***.*%	93 100.0% 100.0%

TABLE-8.4.0

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS UNEMPLOYED ON MARCH 1, 1981
by NON-ACADEMIC WORK FUNCTION
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION

MONTHS UNEMPLOYED	Mgt R&D	Basic Research	Applied R&D	Mgt Non R&D	Market-ing	Prod. & QC	Forensic	Writing/ Editing	Data Proc.	Consult-ing	Other	No Response	TOTAL	
(0-1)	1	1	5	3	1	3	0	1	0	0	0	4	19	-Count
	5.3%	5.3%	26.3%	15.8%	5.3%	15.8%	0.0%	5.3%	0.0%	0.0%	0.0%	21.1%	100.0%	-% of Row
	11.1%	25.0%	22.7%	37.5%	25.0%	25.0%	0.0%	100.0%	***.*%	0.0%	0.0%	20.0%	20.4%	-% of Col
(2-4)	3	1	6	3	0	3	3	0	0	0	2	6	27	
	11.1%	3.7%	22.2%	11.1%	0.0%	11.1%	11.1%	0.0%	0.0%	0.0%	7.4%	22.2%	100.0%	
	33.3%	25.0%	27.3%	37.5%	0.0%	25.0%	37.5%	0.0%	***.*%	0.0%	66.7%	30.0%	29.0%	
(5-7)	0	1	5	1	0	0	1	0	0	1	0	4	13	
	0.0%	7.7%	38.5%	7.7%	0.0%	0.0%	7.7%	0.0%	0.0%	7.7%	0.0%	30.8%	100.0%	
	0.0%	25.0%	22.7%	12.5%	0.0%	0.0%	12.5%	0.0%	***.*%	50.0%	0.0%	20.0%	14.0%	
(8-10)	2	0	4	1	0	4	2	0	0	0	0	1	14	
	14.3%	0.0%	28.6%	7.1%	0.0%	28.6%	14.3%	0.0%	0.0%	0.0%	0.0%	7.1%	100.0%	
	22.2%	0.0%	18.2%	12.5%	0.0%	33.3%	25.0%	0.0%	***.*%	0.0%	0.0%	5.0%	15.1%	
(11-13)	2	1	0	0	1	0	0	0	0	0	0	0	4	
	50.0%	25.0%	0.0%	0.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
	22.2%	25.0%	0.0%	0.0%	25.0%	0.0%	0.0%	0.0%	***.*%	0.0%	0.0%	0.0%	4.3%	
(14-18)	0	0	0	0	0	1	1	0	0	0	0	2	4	
	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	25.0%	0.0%	0.0%	0.0%	0.0%	50.0%	100.0%	
	0.0%	0.0%	0.0%	0.0%	0.0%	8.3%	12.5%	0.0%	***.*%	0.0%	0.0%	10.0%	4.3%	
(19-24)	0	0	0	0	0	0	1	0	0	1	0	0	2	
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	50.0%	0.0%	0.0%	100.0%	
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.5%	0.0%	***.*%	50.0%	0.0%	0.0%	2.2%	
(25-36)	1	0	0	0	1	0	0	0	0	0	0	1	3	
	33.3%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	100.0%	
	11.1%	0.0%	0.0%	0.0%	25.0%	0.0%	0.0%	0.0%	***.*%	0.0%	0.0%	5.0%	3.2%	
(>=37)	0	0	2	0	1	1	0	0	0	0	1	2	7	
	0.0%	0.0%	28.6%	0.0%	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%	14.3%	28.6%	100.0%	
	0.0%	0.0%	9.1%	0.0%	25.0%	8.3%	0.0%	0.0%	***.*%	0.0%	33.3%	10.0%	7.5%	
TOTAL	9	4	22	8	4	12	8	1	0	2	3	20	93	
	9.7%	4.3%	23.7%	8.6%	4.3%	12.9%	8.6%	1.1%	0.0%	2.2%	3.2%	21.5%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	100.0%	

TABLE-8.5.0

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS UNEMPLOYED ON MARCH 1, 1981
by WORK SPECIALTY
1981 Survey of ACS Members

	SPECIALTY												
MONTHS UNEMPLOYED	Biochem	Agr-Food	Analytic	Envirn.	Organic	Pharm.	Physical	Theore.	Poly-Mac	Other	Non-chem	No Response	TOTAL
(0-1)	1 5.3% 14.3%	1 5.3% 25.0%	6 31.6% 27.3%	1 5.3% 20.0%	1 5.3% 11.1%	0 0.0% 0.0%	2 10.5% 33.3%	1 5.3% 100.0%	5 26.3% 38.5%	1 5.3% 7.1%	0 0.0% ***.*%	0 0.0% ***.*%	19 -Count 100.0% -% of Row 20.4% -% of Col
(2-4)	2 7.4% 28.6%	0 0.0% 0.0%	5 18.5% 22.7%	2 7.4% 40.0%	3 11.1% 33.3%	5 18.5% 41.7%	1 3.7% 16.7%	0 0.0% 0.0%	3 11.1% 23.1%	6 22.2% 42.9%	0 0.0% ***.*%	0 0.0% ***.*%	27 100.0% 29.0%
(5-7)	1 7.7% 14.3%	0 0.0% 0.0%	2 15.4% 9.1%	0 0.0% 0.0%	1 7.7% 11.1%	3 23.1% 25.0%	1 7.7% 16.7%	0 0.0% 0.0%	2 15.4% 15.4%	3 23.1% 21.4%	0 0.0% ***.*%	0 0.0% ***.*%	13 100.0% 14.0%
(8-10)	0 0.0% 0.0%	2 14.3% 50.0%	6 42.9% 27.3%	1 7.1% 20.0%	3 21.4% 33.3%	1 7.1% 8.3%	1 7.1% 16.7%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% ***.*%	14 100.0% 15.1%
(11-13)	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 25.0% 8.3%	0 0.0% 0.0%	0 0.0% 0.0%	2 50.0% 15.4%	1 25.0% 7.1%	0 0.0% ***.*%	0 0.0% ***.*%	4 100.0% 4.3%
(14-18)	1 25.0% 14.3%	0 0.0% 0.0%	3 75.0% 13.6%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% ***.*%	4 100.0% 4.3%
(19-24)	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 100.0% 16.7%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% ***.*%	2 100.0% 2.2%
(25-36)	1 33.3% 14.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 11.1%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 7.7%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% ***.*%	3 100.0% 3.2%
(>=37)	1 14.3% 14.3%	1 14.3% 25.0%	0 0.0% 0.0%	1 14.3% 20.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 14.3% 16.7%	0 0.0% 0.0%	0 0.0% 0.0%	3 42.9% 21.4%	0 0.0% ***.*%	0 0.0% ***.*%	7 100.0% 7.5%
TOTAL	7 7.5% 100.0%	4 4.3% 100.0%	22 23.7% 100.0%	5 5.4% 100.0%	9 9.7% 100.0%	12 12.9% 100.0%	6 6.5% 100.0%	1 1.1% 100.0%	13 14.0% 100.0%	14 15.1% 100.0%	0 0.0% ***.*%	0 0.0% ***.*%	93 100.0% 100.0%

TABLE-9.1.0

RESPONDENTS by SEX and DEGREE
1981 Survey of ACS Members

	HIGHEST DEGREE					
SEX	Bachelor's	Master's	Doctorate	No Response	TOTAL	
Men	2,573	1,968	5,294	61	9,896	-Count
	26.0%	19.9%	53.5%	0.6%	100.0%	-% of Row
	83.6%	84.8%	92.2%	48.0%	87.8%	-% of Col
Women	473	335	400	3	1,211	
	39.1%	27.7%	33.0%	0.2%	100.0%	
	15.4%	14.4%	7.0%	2.4%	10.7%	
No Response	30	17	49	63	159	
	18.9%	10.7%	30.8%	39.6%	100.0%	
	1.0%	0.7%	0.9%	49.6%	1.4%	
TOTAL	3,076	2,320	5,743	127	11,266	
	27.3%	20.6%	51.0%	1.1%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.2.0

RESPONDENTS by AGE and DEGREE
1981 Survey of ACS Members

AGE LEVEL	HIGHEST DEGREE: Bachelor's	Master's	Doctorate	No Response	TOTAL
(20-24)	184	22	6	0	212 -Count
	86.8%	10.4%	2.8%	0.0%	100.0% -% of Row
	6.0%	0.9%	0.1%	0.0%	1.9% -% of Col
(25-29)	509	289	334	1	1,133
	44.9%	25.5%	29.5%	0.1%	100.0%
	16.5%	12.5%	5.8%	0.8%	10.1%
(30-34)	395	367	850	2	1,614
	24.5%	22.7%	52.7%	0.1%	100.0%
	12.8%	15.8%	14.8%	1.6%	14.3%
(35-39)	304	302	1,111	3	1,720
	17.7%	17.6%	64.6%	0.2%	100.0%
	9.9%	13.0%	19.3%	2.4%	15.3%
(40-44)	244	251	928	3	1,426
	17.1%	17.6%	65.1%	0.2%	100.0%
	7.9%	10.8%	16.2%	2.4%	12.7%
(45-49)	264	239	711	6	1,220
	21.6%	19.6%	58.3%	0.5%	100.0%
	8.6%	10.3%	12.4%	4.7%	10.8%
(50-54)	382	302	670	2	1,356
	28.2%	22.3%	49.4%	0.1%	100.0%
	12.4%	13.0%	11.7%	1.6%	12.0%
(55-59)	416	301	576	4	1,297
	32.1%	23.2%	44.4%	0.3%	100.0%
	13.5%	13.0%	10.0%	3.1%	11.5%
(60-64)	298	184	419	4	905
	32.9%	20.3%	46.3%	0.4%	100.0%
	9.7%	7.9%	7.3%	3.1%	8.0%
(65-69)	57	43	109	2	211
	27.0%	20.4%	51.7%	0.9%	100.0%
	1.9%	1.9%	1.9%	1.6%	1.9%
(>=70)	6	4	6	1	17
	35.3%	23.5%	35.3%	5.9%	100.0%
	0.2%	0.2%	0.1%	0.8%	0.2%
No Response	17	16	23	99	155
	11.0%	10.3%	14.8%	63.9%	100.0%
	0.6%	0.7%	0.4%	78.0%	1.4%
TOTAL	3,076	2,320	5,743	127	11,266
	27.3%	20.6%	51.0%	1.1%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%

TABLE-9.2.1

RESPONDENTS by AGE and DEGREE - MEN Only
1981 Survey of ACS Members

AGE LEVEL	HIGHEST DEGREE Bachelor's	Master's	Doctorate	No Response	TOTAL	
(20-24)	98	15	3	0	116	-Count
	84.5%	12.9%	2.6%	0.0%	100.0%	-% of Row
	3.8%	0.8%	0.1%	0.0%	1.2%	-% of Col
(25-29)	354	213	285	1	853	
	41.5%	25.0%	33.4%	0.1%	100.0%	
	13.8%	10.8%	5.4%	1.6%	8.6%	
(30-34)	327	303	748	2	1,380	
	23.7%	22.0%	54.2%	0.1%	100.0%	
	12.7%	15.4%	14.1%	3.3%	13.9%	
(35-39)	258	243	1,017	3	1,521	
	17.0%	16.0%	66.9%	0.2%	100.0%	
	10.0%	12.3%	19.2%	4.9%	15.4%	
(40-44)	213	220	857	2	1,292	
	16.5%	17.0%	66.3%	0.2%	100.0%	
	8.3%	11.2%	16.2%	3.3%	13.1%	
(45-49)	235	207	676	6	1,124	
	20.9%	18.4%	60.1%	0.5%	100.0%	
	9.1%	10.5%	12.8%	9.8%	11.4%	
(50-54)	349	261	630	1	1,241	
	28.1%	21.0%	50.8%	0.1%	100.0%	
	13.6%	13.3%	11.9%	1.6%	12.5%	
(55-59)	388	277	550	3	1,218	
	31.9%	22.7%	45.2%	0.2%	100.0%	
	15.1%	14.1%	10.4%	4.9%	12.3%	
(60-64)	285	175	407	4	871	
	32.7%	20.1%	46.7%	0.5%	100.0%	
	11.1%	8.9%	7.7%	6.6%	8.8%	
(65-69)	54	41	101	2	198	
	27.3%	20.7%	51.0%	1.0%	100.0%	
	2.1%	2.1%	1.9%	3.3%	2.0%	
(>=70)	4	3	2	0	9	
	44.4%	33.3%	22.2%	0.0%	100.0%	
	0.2%	0.2%	0.0%	0.0%	0.1%	
No Response	8	10	18	37	73	
	11.0%	13.7%	24.7%	50.7%	100.0%	
	0.3%	0.5%	0.3%	60.7%	0.7%	
TOTAL	2,573	1,968	5,294	61	9,896	
	26.0%	19.9%	53.5%	0.6%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.2.2

RESPONDENTS by AGE and DEGREE - WOMEN Only
1981 Survey of ACS Members

AGE LEVEL	HIGHEST DEGREE Bachelor's	Master's	Doctorate	No Response	TOTAL	
(20-24)	85	7	3	0	95	-Count
	89.5%	7.4%	3.2%	0.0%	100.0%	-% of Row
	18.0%	2.1%	0.8%	0.0%	7.8%	-% of Col
(25-29)	155	76	49	0	280	
	55.4%	27.1%	17.5%	0.0%	100.0%	
	32.8%	22.7%	12.3%	0.0%	23.1%	
(30-34)	64	63	96	0	223	
	28.7%	28.3%	43.0%	0.0%	100.0%	
	13.5%	18.8%	24.0%	0.0%	18.4%	
(35-39)	45	56	90	0	191	
	23.6%	29.3%	47.1%	0.0%	100.0%	
	9.5%	16.7%	22.5%	0.0%	15.8%	
(40-44)	30	31	62	0	123	
	24.4%	25.2%	50.4%	0.0%	100.0%	
	6.3%	9.3%	15.5%	0.0%	10.2%	
(45-49)	26	31	30	0	87	
	29.9%	35.6%	34.5%	0.0%	100.0%	
	5.5%	9.3%	7.5%	0.0%	7.2%	
(50-54)	28	36	27	1	92	
	30.4%	39.1%	29.3%	1.1%	100.0%	
	5.9%	10.7%	6.8%	33.3%	7.6%	
(55-59)	23	22	20	1	66	
	34.8%	33.3%	30.3%	1.5%	100.0%	
	4.9%	6.6%	5.0%	33.3%	5.5%	
(60-64)	10	9	12	0	31	
	32.3%	29.0%	38.7%	0.0%	100.0%	
	2.1%	2.7%	3.0%	0.0%	2.6%	
(65-69)	3	2	6	0	11	
	27.3%	18.2%	54.5%	0.0%	100.0%	
	0.6%	0.6%	1.5%	0.0%	0.9%	
(>=70)	2	0	1	0	3	
	66.7%	0.0%	33.3%	0.0%	100.0%	
	0.4%	0.0%	0.3%	0.0%	0.2%	
No Response	2	2	4	1	9	
	22.2%	22.2%	44.4%	11.1%	100.0%	
	0.4%	0.6%	1.0%	33.3%	0.7%	
TOTAL	473	335	400	3	1,211	
	39.1%	27.7%	33.0%	0.2%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.3.0

RESPONDENTS by WORK SPECIALTY and DEGREE
1981 Survey of ACS Members

SPECIALTY	HIGHEST DEGREE Bachelor's	Master's	Doctorate	No Response	TOTAL	
Chemical Engineering	451	296	401	11	1,159	-Count
	38.9%	25.5%	34.6%	0.9%	100.0%	-% of Row
	14.7%	12.8%	7.0%	8.7%	10.3%	-% of Col
Biochemistry	44	57	561	5	667	
	6.6%	8.5%	84.1%	0.7%	100.0%	
	1.4%	2.5%	9.8%	3.9%	5.9%	
Agricultural, Food Chemistry	127	69	186	1	383	
	33.2%	18.0%	48.6%	0.3%	100.0%	
	4.1%	3.0%	3.2%	0.8%	3.4%	
Analytical Chemistry	743	412	619	11	1,785	
	41.6%	23.1%	34.7%	0.6%	100.0%	
	24.2%	17.8%	10.8%	8.7%	15.8%	
Environmental Chemistry	206	146	253	2	607	
	33.9%	24.1%	41.7%	0.3%	100.0%	
	6.7%	6.3%	4.4%	1.6%	5.4%	
Organic Chemistry	237	251	1,006	10	1,504	
	15.8%	16.7%	66.9%	0.7%	100.0%	
	7.7%	10.8%	17.5%	7.9%	13.3%	
Pharmaceutical, Medicinal Chemistry	189	180	411	5	785	
	24.1%	22.9%	52.4%	0.6%	100.0%	
	6.1%	7.8%	7.2%	3.9%	7.0%	
Physical Chemistry	79	70	673	3	825	
	9.6%	8.5%	81.6%	0.4%	100.0%	
	2.6%	3.0%	11.7%	2.4%	7.3%	
Theoretical Chemistry	7	5	46	1	59	
	11.9%	8.5%	78.0%	1.7%	100.0%	
	0.2%	0.2%	0.8%	0.8%	0.5%	
Polymer, Macromolecular Chemistry	276	186	594	3	1,059	
	26.1%	17.6%	56.1%	0.3%	100.0%	
	9.0%	8.0%	10.3%	2.4%	9.4%	
Other Chemical	344	306	563	5	1,218	
	28.2%	25.1%	46.2%	0.4%	100.0%	
	11.2%	13.2%	9.8%	3.9%	10.8%	
Non-Chemical	346	308	391	9	1,054	
	32.8%	29.2%	37.1%	0.9%	100.0%	
	11.2%	13.3%	6.8%	7.1%	9.4%	
No Response	27	34	39	61	161	
	16.8%	21.1%	24.2%	37.9%	100.0%	
	0.9%	1.5%	0.7%	48.0%	1.4%	
TOTAL	3,076	2,320	5,743	127	11,266	
	27.3%	20.6%	51.0%	1.1%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.4.0

RESPONDENTS by MINORITY CLASSIFICATION and DEGREE
1981 Survey of ACS Members

RACE	HIGHEST DEGREE: Bachelors	Masters	Doctorate	No Response	TOTAL	
White	2,893	2,132	5,187	63	10,275	-Count
	28.2%	20.7%	50.5%	0.6%	100.0%	-% of Row
	94.1%	91.9%	90.3%	49.6%	91.2%	-% of Col
Black	44	40	51	0	135	
	32.6%	29.6%	37.8%	0.0%	100.0%	
	1.4%	1.7%	0.9%	0.0%	1.2%	
American Indian	5	4	5	0	14	
	35.7%	28.6%	35.7%	0.0%	100.0%	
	0.2%	0.2%	0.1%	0.0%	0.1%	
Asian/Pacific	73	101	421	3	598	
	12.2%	16.9%	70.4%	0.5%	100.0%	
	2.4%	4.4%	7.3%	2.4%	5.3%	
Hispanic	22	16	31	0	69	
	31.9%	23.2%	44.9%	0.0%	100.0%	
	0.7%	0.7%	0.5%	0.0%	0.6%	
None of Above	14	10	18	0	42	
	33.3%	23.8%	42.9%	0.0%	100.0%	
	0.5%	0.4%	0.3%	0.0%	0.4%	
No Response	25	17	30	61	133	
	18.8%	12.8%	22.6%	45.9%	100.0%	
	0.8%	0.7%	0.5%	48.0%	1.2%	
TOTAL	3,076	2,320	5,743	127	11,266	
	27.3%	20.6%	51.0%	1.1%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.5.0

RESPONDENTS by MINORITY CLASSIFICATION and SEX
1981 Survey of ACS Members

	SEX				
RACE	Men	Women	No Response	TOTAL	
White	9,142	1,063	70	10,275	-Count
	89.0%	10.3%	0.7%	100.0%	-% of Row
	92.4%	87.8%	44.0%	91.2%	-% of Col
Black	90	43	2	135	
	66.7%	31.9%	1.5%	100.0%	
	0.9%	3.6%	1.3%	1.2%	
American Indian	11	3	0	14	
	78.6%	21.4%	0.0%	100.0%	
	0.1%	0.2%	0.0%	0.1%	
Asian/Pacific	512	81	5	598	
	85.6%	13.5%	0.8%	100.0%	
	5.2%	6.7%	3.1%	5.3%	
Hispanic	57	11	1	69	
	82.6%	15.9%	1.4%	100.0%	
	0.6%	0.9%	0.6%	0.6%	
None of Above	35	6	1	42	
	83.3%	14.3%	2.4%	100.0%	
	0.4%	0.5%	0.6%	0.4%	
No Response	49	4	80	133	
	36.8%	3.0%	60.2%	100.0%	
	0.5%	0.3%	50.3%	1.2%	
TOTAL	9,896	1,211	159	11,266	
	87.8%	10.7%	1.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

TABLE-9.6.0

RESPONDENTS by MINORITY CLASSIFICATION and CITIZENSHIP
1981 Survey of ACS Members

	CITIZENSHIP					
RACE	US Citizen	Perm Resident	Other	No Response	TOTAL	
White	10,026	195	23	31	10,275	-Count
	97.6%	1.9%	0.2%	0.3%	100.0%	-% of Row
	93.7%	48.0%	40.4%	31.6%	91.2%	-% of Col
Black	124	8	1	2	135	
	91.9%	5.9%	0.7%	1.5%	100.0%	
	1.2%	2.0%	1.8%	2.0%	1.2%	
American Indian	13	1	0	0	14	
	92.9%	7.1%	0.0%	0.0%	100.0%	
	0.1%	0.2%	0.0%	0.0%	0.1%	
Asian/Pacific	378	191	29	0	598	
	63.2%	31.9%	4.8%	0.0%	100.0%	
	3.5%	47.0%	50.9%	0.0%	5.3%	
Hispanic	63	3	2	1	69	
	91.3%	4.3%	2.9%	1.4%	100.0%	
	0.6%	0.7%	3.5%	1.0%	0.6%	
None of Above	31	8	2	1	42	
	73.8%	19.0%	4.8%	2.4%	100.0%	
	0.3%	2.0%	3.5%	1.0%	0.4%	
No Response	70	0	0	63	133	
	52.6%	0.0%	0.0%	47.4%	100.0%	
	0.7%	0.0%	0.0%	64.3%	1.2%	
TOTAL	10,705	406	57	98	11,266	
	95.0%	3.6%	0.5%	0.9%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.7.0

RESPONDENTS by LOCAL SECTION and WORK SPECIALTY
1981 Survey of ACS Members

ACS LOCAL SECTION	Chemical Eng.	Biochem	Agri/Food Chemistry	Analytic Chem.	Enviro Chem.	Organic	Pharm Medical	Physical	Theor Chem.	Polymer Macro	Other Chem.	Other Non-Chem	No Response	TOTAL	
	SPECIALTY														
Southern California	55	28	15	63	31	59	36	43	4	38	59	38	0	469	-Count
	11.7%	6.0%	3.2%	13.4%	6.6%	12.6%	7.7%	9.2%	0.9%	8.1%	12.6%	8.1%	0.0%	100.0%	-% of Row
	4.7%	4.2%	3.9%	3.5%	5.1%	3.9%	4.6%	5.2%	6.8%	3.6%	4.8%	3.6%	0.0%	4.2%	-% of Col
California	43	31	32	72	26	48	21	40	4	33	35	45	0	430	
	10.0%	7.2%	7.4%	16.7%	6.0%	11.2%	4.9%	9.3%	0.9%	7.7%	8.1%	10.5%	0.0%	100.0%	
	3.7%	4.6%	8.4%	4.0%	4.3%	3.2%	2.7%	4.8%	6.8%	3.1%	2.9%	4.3%	0.0%	3.8%	
Chicago	61	32	35	109	29	71	61	37	2	38	63	48	7	593	
	10.3%	5.4%	5.9%	18.4%	4.9%	12.0%	10.3%	6.2%	0.3%	6.4%	10.6%	8.1%	1.2%	100.0%	
	5.3%	4.8%	9.1%	6.1%	4.8%	4.7%	7.8%	4.5%	3.4%	3.6%	5.2%	4.6%	4.3%	5.3%	
Delaware	27	3	3	40	10	50	11	17	1	68	30	28	2	290	
	9.3%	1.0%	1.0%	13.8%	3.4%	17.2%	3.8%	5.9%	0.3%	23.4%	10.3%	9.7%	0.7%	100.0%	
	2.3%	0.4%	0.8%	2.2%	1.6%	3.3%	1.4%	2.1%	1.7%	6.4%	2.5%	2.7%	1.2%	2.6%	
New York	51	59	27	104	35	86	68	48	6	43	68	75	5	675	
	7.6%	8.7%	4.0%	15.4%	5.2%	12.7%	10.1%	7.1%	0.9%	6.4%	10.1%	11.1%	0.7%	100.0%	
	4.4%	8.8%	7.0%	5.8%	5.8%	5.7%	8.7%	5.8%	10.2%	4.1%	5.6%	7.1%	3.1%	6.0%	
North Jersey	95	29	26	99	19	123	114	44	5	92	89	76	5	816	
	11.6%	3.6%	3.2%	12.1%	2.3%	15.1%	14.0%	5.4%	0.6%	11.3%	10.9%	9.3%	0.6%	100.0%	
	8.2%	4.3%	6.8%	5.5%	3.1%	8.2%	14.5%	5.3%	8.5%	8.7%	7.3%	7.2%	3.1%	7.2%	
North Eastern	62	48	7	86	29	77	48	50	4	80	93	47	5	636	
	9.7%	7.5%	1.1%	13.5%	4.6%	12.1%	7.5%	7.9%	0.6%	12.6%	14.6%	7.4%	0.8%	100.0%	
	5.3%	7.2%	1.8%	4.8%	4.8%	5.1%	6.1%	6.1%	6.8%	7.6%	7.6%	4.5%	3.1%	5.6%	
Philadelphia	42	19	9	64	14	55	53	28	2	64	44	45	3	442	
	9.5%	4.3%	2.0%	14.5%	3.2%	12.4%	12.0%	6.3%	0.5%	14.5%	10.0%	10.2%	0.7%	100.0%	
	3.6%	2.8%	2.3%	3.6%	2.3%	3.7%	6.8%	3.4%	3.4%	6.0%	3.6%	4.3%	1.9%	3.9%	
Pittsburgh	46	5	1	54	15	27	4	20	2	36	23	22	2	257	
	17.9%	1.9%	0.4%	21.0%	5.8%	10.5%	1.6%	7.8%	0.8%	14.0%	8.9%	8.6%	0.8%	100.0%	
	4.0%	0.7%	0.3%	3.0%	2.5%	1.8%	0.5%	2.4%	3.4%	3.4%	1.9%	2.1%	1.2%	2.3%	
Southeast Texas	63	15	9	69	14	37	9	23	2	21	26	37	4	329	
	19.1%	4.6%	2.7%	21.0%	4.3%	11.2%	2.7%	7.0%	0.6%	6.4%	7.9%	11.2%	1.2%	100.0%	
	5.4%	2.2%	2.3%	3.9%	2.3%	2.5%	1.1%	2.8%	3.4%	2.0%	2.1%	3.5%	2.5%	2.9%	
Washington, DC	37	55	18	56	43	32	42	42	1	23	42	68	7	466	
	7.9%	11.8%	3.9%	12.0%	9.2%	6.9%	9.0%	9.0%	0.2%	4.9%	9.0%	14.6%	1.5%	100.0%	
	3.2%	8.2%	4.7%	3.1%	7.1%	2.1%	5.4%	5.1%	1.7%	2.2%	3.4%	6.5%	4.3%	4.1%	
None of Above	543	316	194	937	329	818	311	419	26	505	622	495	54	5,569	
	9.8%	5.7%	3.5%	16.8%	5.9%	14.7%	5.6%	7.5%	0.5%	9.1%	11.2%	8.9%	1.0%	100.0%	
	46.9%	47.4%	50.7%	52.5%	54.2%	54.4%	39.6%	50.8%	44.1%	47.7%	51.1%	47.0%	33.5%	49.4%	
No Response	34	27	7	32	13	21	7	14	0	18	24	30	67	294	
	11.6%	9.2%	2.4%	10.9%	4.4%	7.1%	2.4%	4.8%	0.0%	6.1%	8.2%	10.2%	22.8%	100.0%	
	2.9%	4.0%	1.8%	1.8%	2.1%	1.4%	0.9%	1.7%	0.0%	1.7%	2.0%	2.8%	41.6%	2.6%	
TOTAL	1,159	667	383	1,785	607	1,504	785	825	59	1,059	1,218	1,054	161	11,266	
	10.3%	5.9%	3.4%	15.8%	5.4%	13.3%	7.0%	7.3%	0.5%	9.4%	10.8%	9.4%	1.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.8.0

RESPONDENTS by ACS LOCAL SECTION and EMPLOYMENT STATUS
1981 Survey of ACS Members

ACS LOCAL SECTION	EMPLOYMENT STATUS: Post-Doctorate	Employed Full-time	Unempl. Seeking	Unempl. Not Seek	Employed Part-time	No Response	TOTAL
Southern California	12	422	6	9	12	8	469 -Count
	2.6%	90.0%	1.3%	1.9%	2.6%	1.7%	100.0% -% of Row
	5.9%	4.0%	4.8%	8.2%	8.6%	3.1%	4.2% -% of Col
California	9	398	5	4	9	5	430
	2.1%	92.6%	1.2%	0.9%	2.1%	1.2%	100.0%
	4.5%	3.8%	4.0%	3.6%	6.4%	2.0%	3.8%
Chicago	9	564	8	1	6	5	593
	1.5%	95.1%	1.3%	0.2%	1.0%	0.8%	100.0%
	4.5%	5.4%	6.5%	0.9%	4.3%	2.0%	5.3%
Delaware	1	278	2	3	2	4	290
	0.3%	95.9%	0.7%	1.0%	0.7%	1.4%	100.0%
	0.5%	2.7%	1.6%	2.7%	1.4%	1.6%	2.6%
New York	19	615	10	5	8	18	675
	2.8%	91.1%	1.5%	0.7%	1.2%	2.7%	100.0%
	9.4%	5.9%	8.1%	4.5%	5.7%	7.0%	6.0%
North Jersey	3	776	6	4	13	14	816
	0.4%	95.1%	0.7%	0.5%	1.6%	1.7%	100.0%
	1.5%	7.4%	4.8%	3.6%	9.3%	5.5%	7.2%
North Eastern	28	578	7	5	6	12	636
	4.4%	90.9%	1.1%	0.8%	0.9%	1.9%	100.0%
	13.9%	5.5%	5.6%	4.5%	4.3%	4.7%	5.6%
Philadelphia	5	418	7	1	4	7	442
	1.1%	94.6%	1.6%	0.2%	0.9%	1.6%	100.0%
	2.5%	4.0%	5.6%	0.9%	2.9%	2.7%	3.9%
Pittsburgh	4	244	4	2	0	3	257
	1.6%	94.9%	1.6%	0.8%	0.0%	1.2%	100.0%
	2.0%	2.3%	3.2%	1.8%	0.0%	1.2%	2.3%
Southeast Texas	4	309	3	5	6	2	329
	1.2%	93.9%	0.9%	1.5%	1.8%	0.6%	100.0%
	2.0%	3.0%	2.4%	4.5%	4.3%	0.8%	2.9%
Washington, DC	11	413	7	10	11	14	466
	2.4%	88.6%	1.5%	2.1%	2.4%	3.0%	100.0%
	5.4%	4.0%	5.6%	9.1%	7.9%	5.5%	4.1%
None of Above	90	5,215	55	59	59	91	5,569
	1.6%	93.6%	1.0%	1.1%	1.1%	1.6%	100.0%
	44.6%	50.0%	44.4%	53.6%	42.1%	35.5%	49.4%
No Response	7	204	4	2	4	73	294
	2.4%	69.4%	1.4%	0.7%	1.4%	24.8%	100.0%
	3.5%	2.0%	3.2%	1.8%	2.9%	28.5%	2.6%
TOTAL	202	10,434	124	110	140	256	11,266
	1.8%	92.6%	1.1%	1.0%	1.2%	2.3%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

TABLE-9.9.0

RESPONDENTS by ACS LOCAL SECTION and SEX
1981 Survey of ACS Members

	SEX				
ACS LOCAL SECTION	Men	Women	No Response	TOTAL	
Southern California	406	57	6	469	-Count
	86.6%	12.2%	1.3%	100.0%	-% of Row
	4.1%	4.7%	3.8%	4.2%	-% of Col
California	375	53	2	430	
	87.2%	12.3%	0.5%	100.0%	
	3.8%	4.4%	1.3%	3.8%	
Chicago	515	72	6	593	
	86.8%	12.1%	1.0%	100.0%	
	5.2%	5.9%	3.8%	5.3%	
Delaware	265	23	2	290	
	91.4%	7.9%	0.7%	100.0%	
	2.7%	1.9%	1.3%	2.6%	
New York	585	85	5	675	
	86.7%	12.6%	0.7%	100.0%	
	5.9%	7.0%	3.1%	6.0%	
North Jersey	714	95	7	816	
	87.5%	11.6%	0.9%	100.0%	
	7.2%	7.8%	4.4%	7.2%	
North Eastern	548	84	4	636	
	86.2%	13.2%	0.6%	100.0%	
	5.5%	6.9%	2.5%	5.6%	
Philadelphia	388	53	1	442	
	87.8%	12.0%	0.2%	100.0%	
	3.9%	4.4%	0.6%	3.9%	
Pittsburg	224	30	3	257	
	87.2%	11.7%	1.2%	100.0%	
	2.3%	2.5%	1.9%	2.3%	
Southeast Texas	287	37	5	329	
	87.2%	11.2%	1.5%	100.0%	
	2.9%	3.1%	3.1%	2.9%	
Washington, DC	384	77	5	466	
	82.4%	16.5%	1.1%	100.0%	
	3.9%	6.4%	3.1%	4.1%	
None of Above	5,015	514	40	5,569	
	90.1%	9.2%	0.7%	100.0%	
	50.7%	42.4%	25.2%	49.4%	
No Response	190	31	73	294	
	64.6%	10.5%	24.8%	100.0%	
	1.9%	2.6%	45.9%	2.6%	
TOTAL	9,896	1,211	159	11,266	
	87.8%	10.7%	1.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

TABLE-9.10.0

RESPONDENTS by ACS LOCAL SECTION and AGE
1981 Survey of ACS Members

AGE LEVEL

ACS LOCAL SECTION	(20-24)	(25-29)	(30-34)	(35-39)	(40-44)	(45-49)	(50-54)	(55-59)	(60-64)	(65-69)	(>=70)	No Response	TOTAL
Southern California	9 1.9% 4.2%	42 9.0% 3.7%	74 15.8% 4.6%	64 13.6% 3.7%	58 12.4% 4.1%	50 10.7% 4.1%	45 9.6% 3.3%	60 12.8% 4.6%	45 9.6% 5.0%	16 3.4% 7.6%	2 0.4% 11.8%	4 0.9% 2.6%	469 -Count 100.0% -% of Row 4.2% -% of Col
California	7 1.6% 3.3%	40 9.3% 3.5%	73 17.0% 4.5%	66 15.3% 3.8%	58 13.5% 4.1%	40 9.3% 3.3%	53 12.3% 3.9%	43 10.0% 3.3%	42 9.8% 4.6%	6 1.4% 2.8%	0 0.0% 0.0%	2 0.5% 1.3%	430 100.0% 3.8%
Chicago	14 2.4% 6.6%	76 12.8% 6.7%	91 15.3% 5.6%	99 16.7% 5.8%	60 10.1% 4.2%	54 9.1% 4.4%	65 11.0% 4.8%	54 9.1% 4.2%	60 10.1% 6.6%	16 2.7% 7.6%	1 0.2% 5.9%	3 0.5% 1.9%	593 100.0% 5.3%
Delaware	1 0.3% 0.5%	25 8.6% 2.2%	24 8.3% 1.5%	36 12.4% 2.1%	39 13.4% 2.7%	23 7.9% 1.9%	49 16.9% 3.6%	50 17.2% 3.9%	34 11.7% 3.8%	5 1.7% 2.4%	0 0.0% 0.0%	4 1.4% 2.6%	290 100.0% 2.6%
New York	23 3.4% 10.8%	75 11.1% 6.6%	104 15.4% 6.4%	97 14.4% 5.6%	73 10.8% 5.1%	66 9.8% 5.4%	91 13.5% 6.7%	78 11.6% 6.0%	47 7.0% 5.2%	12 1.8% 5.7%	1 0.1% 5.9%	8 1.2% 5.2%	675 100.0% 6.0%
North Jersey	12 1.5% 5.7%	69 8.5% 6.1%	107 13.1% 6.6%	120 14.7% 7.0%	94 11.5% 6.6%	99 12.1% 8.1%	113 13.8% 8.3%	103 12.6% 7.9%	78 9.6% 8.6%	18 2.2% 8.5%	0 0.0% 0.0%	3 0.4% 1.9%	816 100.0% 7.2%
North Eastern	19 3.0% 9.0%	81 12.7% 7.1%	95 14.9% 5.9%	115 18.1% 6.7%	73 11.5% 5.1%	57 9.0% 4.7%	67 10.5% 4.9%	75 11.8% 5.8%	43 6.8% 4.8%	7 1.1% 3.3%	0 0.0% 0.0%	4 0.6% 2.6%	636 100.0% 5.6%
Philadelphia	10 2.3% 4.7%	42 9.5% 3.7%	59 13.3% 3.7%	52 11.8% 3.0%	58 13.1% 4.1%	52 11.8% 4.3%	56 12.7% 4.1%	66 14.9% 5.1%	36 8.1% 4.0%	8 1.8% 3.8%	1 0.2% 5.9%	2 0.5% 1.3%	442 100.0% 3.9%
Pittsburgh	9 3.5% 4.2%	34 13.2% 3.0%	34 13.2% 2.1%	31 12.1% 1.8%	24 9.3% 1.7%	27 10.5% 2.2%	38 14.8% 2.8%	33 12.8% 2.5%	18 7.0% 2.0%	5 1.9% 2.4%	2 0.8% 11.8%	2 0.8% 1.3%	257 100.0% 2.3%
Southeast Texas	9 2.7% 4.2%	40 12.2% 3.5%	56 17.0% 3.5%	49 14.9% 2.8%	41 12.5% 2.9%	37 11.2% 3.0%	38 11.6% 2.8%	31 9.4% 2.4%	19 5.8% 2.1%	4 1.2% 1.9%	1 0.3% 5.9%	4 1.2% 2.6%	329 100.0% 2.9%
Washington, DC	6 1.3% 2.8%	37 7.9% 3.3%	50 10.7% 3.1%	76 16.3% 4.4%	73 15.7% 5.1%	47 10.1% 3.9%	56 12.0% 4.1%	53 11.4% 4.1%	46 9.9% 5.1%	14 3.0% 6.6%	1 0.2% 5.9%	7 1.5% 4.5%	466 100.0% 4.1%
None of Above	87 1.6% 41.0%	544 9.8% 48.0%	811 14.6% 50.2%	888 15.9% 51.6%	743 13.3% 52.1%	647 11.6% 53.0%	655 11.8% 48.3%	629 11.3% 48.5%	424 7.6% 46.9%	98 1.8% 46.4%	5 0.1% 29.4%	38 0.7% 24.5%	5,569 100.0% 49.4%
No Response	6 2.0% 2.8%	28 9.5% 2.5%	36 12.2% 2.2%	27 9.2% 1.6%	32 10.9% 2.2%	21 7.1% 1.7%	30 10.2% 2.2%	22 7.5% 1.7%	13 4.4% 1.4%	2 0.7% 0.9%	3 1.0% 17.6%	74 25.2% 47.7%	294 100.0% 2.6%
TOTAL	212 1.9% 100.0%	1,133 10.1% 100.0%	1,614 14.3% 100.0%	1,720 15.3% 100.0%	1,426 12.7% 100.0%	1,220 10.8% 100.0%	1,356 12.0% 100.0%	1,297 11.5% 100.0%	905 8.0% 100.0%	211 1.9% 100.0%	17 0.2% 100.0%	155 1.4% 100.0%	11,266 100.0% 100.0%

TABLE-9.11.0

RESPONDENTS by ACS LOCAL SECTION and HIGHEST DEGREE
1981 Survey of ACS Members

ACS LOCAL SECTION	HIGHEST DEGREE Bachelor's	Master's	Doctorate	No Response	TOTAL	
Southern California	131	102	233	3	469	-Count
	27.9%	21.7%	49.7%	0.6%	100.0%	-% of Row
	4.3%	4.4%	4.1%	2.4%	4.2%	-% of Col
California	136	76	216	2	430	
	31.6%	17.7%	50.2%	0.5%	100.0%	
	4.4%	3.3%	3.8%	1.6%	3.8%	
Chicago	193	149	247	4	593	
	32.5%	25.1%	41.7%	0.7%	100.0%	
	6.3%	6.4%	4.3%	3.1%	5.3%	
Delaware	44	43	201	2	290	
	15.2%	14.8%	69.3%	0.7%	100.0%	
	1.4%	1.9%	3.5%	1.6%	2.6%	
New York	184	165	325	1	675	
	27.3%	24.4%	48.1%	0.1%	100.0%	
	6.0%	7.1%	5.7%	0.8%	6.0%	
North Jersey	219	191	403	3	816	
	26.8%	23.4%	49.4%	0.4%	100.0%	
	7.1%	8.2%	7.0%	2.4%	7.2%	
North Eastern	182	141	309	4	636	
	28.6%	22.2%	48.6%	0.6%	100.0%	
	5.9%	6.1%	5.4%	3.1%	5.6%	
Philadelphia	133	95	212	2	442	
	30.1%	21.5%	48.0%	0.5%	100.0%	
	4.3%	4.1%	3.7%	1.6%	3.9%	
Pittsburgh	92	54	109	2	257	
	35.8%	21.0%	42.4%	0.8%	100.0%	
	3.0%	2.3%	1.9%	1.6%	2.3%	
Southeast Texas	86	89	152	2	329	
	26.1%	27.1%	46.2%	0.6%	100.0%	
	2.8%	3.8%	2.6%	1.6%	2.9%	
Washington, DC	104	95	263	4	466	
	22.3%	20.4%	56.4%	0.9%	100.0%	
	3.4%	4.1%	4.6%	3.1%	4.1%	
None of Above	1,508	1,073	2,955	33	5,569	
	27.1%	19.3%	53.1%	0.6%	100.0%	
	49.0%	46.3%	51.5%	26.0%	49.4%	
No Response	64	47	118	65	294	
	21.8%	16.0%	40.1%	22.1%	100.0%	
	2.1%	2.0%	2.1%	51.2%	2.6%	
TOTAL	3,076	2,320	5,743	127	11,266	
	27.3%	20.6%	51.0%	1.1%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-10.1.0

POSTDOCTORAL RESPONDENTS by AGE and YEARS SINCE BS
1981 Survey of ACS Members

AGE LEVEL	YEARS SINCE BS (0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Response	TOTAL
(20-24)	0	3	0	0	0	0	0	0	0	0	0	3 -Count
	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0% -% of Row
	***.*%	42.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5% -% of Col
(25-29)	0	3	80	0	0	0	0	0	0	0	1	84
	0.0%	3.6%	95.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	100.0%
	***.*%	42.9%	75.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.5%	41.6%
(30-34)	0	1	24	36	1	0	0	0	0	0	3	65
	0.0%	1.5%	36.9%	55.4%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	4.6%	100.0%
	***.*%	14.3%	22.6%	80.0%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	37.5%	32.2%
(35-39)	0	0	0	9	9	2	0	0	0	0	1	21
	0.0%	0.0%	0.0%	42.9%	42.9%	9.5%	0.0%	0.0%	0.0%	0.0%	4.8%	100.0%
	***.*%	0.0%	0.0%	20.0%	56.3%	33.3%	0.0%	0.0%	0.0%	0.0%	12.5%	10.4%
(40-44)	0	0	1	0	5	3	0	0	0	0	0	9
	0.0%	0.0%	11.1%	0.0%	55.6%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
	***.*%	0.0%	0.9%	0.0%	31.3%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.5%
(45-49)	0	0	0	0	1	0	4	0	0	0	1	6
	0.0%	0.0%	0.0%	0.0%	16.7%	0.0%	66.7%	0.0%	0.0%	0.0%	16.7%	100.0%
	***.*%	0.0%	0.0%	0.0%	6.3%	0.0%	100.0%	0.0%	0.0%	0.0%	12.5%	3.0%
(50-54)	0	0	0	0	0	1	0	2	0	0	0	3
	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	66.7%	0.0%	0.0%	0.0%	100.0%
	***.*%	0.0%	0.0%	0.0%	0.0%	16.7%	0.0%	100.0%	0.0%	0.0%	0.0%	1.5%
(55-59)	0	0	0	0	0	0	0	0	3	1	0	4
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	75.0%	25.0%	0.0%	100.0%
	***.*%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	75.0%	25.0%	0.0%	2.0%
(60-64)	0	0	0	0	0	0	0	0	0	2	0	2
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
	***.*%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	1.0%
(65-69)	0	0	0	0	0	0	0	0	0	0	0	0
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	***.*%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
(>=70)	0	0	0	0	0	0	0	0	0	0	0	0
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	***.*%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Response	0	0	1	0	0	0	0	0	1	1	2	5
	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	20.0%	40.0%	100.0%
	***.*%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	25.0%	25.0%	2.5%
TOTAL	0	7	106	45	16	6	4	2	4	4	8	202
	0.0%	3.5%	52.5%	22.3%	7.9%	3.0%	2.0%	1.0%	2.0%	2.0%	4.0%	100.0%
	***.*%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

TABLE-10.2.0

POSTDOCTORAL RESPONDENTS by MINORITY CLASSIFICATION and CITIZENSHIP

	RACE							
CITIZENSHIP	White	Black	American Indian	Asian	Hispanic	Other	No Response	TOTAL
US Citizen	148	1	0	9	3	1	2	164 -Count
	90.2%	0.6%	0.0%	5.5%	1.8%	0.6%	1.2%	100.0% -% of Row
	91.4%	33.3%	***.*%	30.0%	100.0%	50.0%	100.0%	81.2% -% of Col
Permanent resident	5	1	0	12	0	1	0	19
	26.3%	5.3%	0.0%	63.2%	0.0%	5.3%	0.0%	100.0%
	3.1%	33.3%	***.*%	40.0%	0.0%	50.0%	0.0%	9.4%
Other	8	1	0	9	0	0	0	18
	44.4%	5.6%	0.0%	50.0%	0.0%	0.0%	0.0%	100.0%
	4.9%	33.3%	***.*%	30.0%	0.0%	0.0%	0.0%	8.9%
No Response	1	0	0	0	0	0	0	. 1
	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
	0.6%	0.0%	***.*%	0.0%	0.0%	0.0%	0.0%	0.5%
TOTAL	162	3	0	30	3	2	2	202
	80.2%	1.5%	0.0%	14.9%	1.5%	1.0%	1.0%	100.0%
	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	100.0%	100.0%

TABLE-10.3.0

POSTDOCTORAL RESPONDENTS by ACADEMIC EMPLOYER and MINORITY CLASSIFICATION
1981 Survey of ACS Members

	RACE								
ACADEMIC EMPLOYER	White	Black	American Indian	Asian/ Pacific	Hispanic	Other	No Response	TOTAL	
Private Doctorate	56 86.2% 34.6%	0 0.0% 0.0%	0 0.0% ***.*%	6 9.2% 20.0%	1 1.5% 33.3%	2 3.1% 100.0%	0 0.0% 0.0%	65 100.0% 32.2%	-Count -% of Row -% of Col
Private Masters	1 33.3% 0.6%	0 0.0% 0.0%	0 0.0% ***.*%	2 66.7% 6.7%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3 100.0% 1.5%	
Private Bachelors	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.*%	1 100.0% 3.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 0.5%	
Private Associate	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	
Public Doctorate	62 80.5% 38.3%	1 1.3% 33.3%	0 0.0% ***.*%	14 18.2% 46.7%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	77 100.0% 38.1%	
Public Masters	1 100.0% 0.6%	0 0.0% 0.0%	0 0.0% ***.*%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 0.5%	
Public Bachelors	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	
Public Associate	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	
High School or Other	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	
No Response	42 76.4% 25.9%	2 3.6% 66.7%	0 0.0% ***.*%	7 12.7% 23.3%	2 3.6% 66.7%	0 0.0% 0.0%	2 3.6% 100.0%	55 100.0% 27.2%	
TOTAL	162 80.2% 100.0%	3 1.5% 100.0%	0 0.0% ***.*%	30 14.9% 100.0%	3 1.5% 100.0%	2 1.0% 100.0%	2 1.0% 100.0%	202 100.0% 100.0%	

American Chemical Society

OFFICE OF THE
EXECUTIVE DIRECTOR

Raymond P. Mariella, *Executive Director*

1155 SIXTEENTH STREET, N.W.
WASHINGTON, D.C. 20036
Phone (202) 872-4455

February 25, 1981

Dear Member:

The American Chemical Society annually reports on the economic status of the chemical profession as reflected in a sample survey of its U.S. membership. You are one of about 21,000 randomly selected members being asked to participate in this survey, which is conducted under the aegis of the Council Committee on Economic Status.

Because a high response rate is needed to assure accurate results, your participation will be an important service to your colleagues. Please take a few minutes now, while the survey form is before you, to fill out the questionnaire and return it promptly in the enclosed business reply envelope. The procedure is confidential, and the information you provide will be combined with returns from other members so that only aggregated data will be available. A summary of the findings will appear in CHEMICAL AND ENGINEERING NEWS later this spring.

Please feel free to use the back of the questionnaire for whatever comments or suggestions you might care to make.

Thank you for your assistance.

Sincerely yours,

Raymond P. Mariella

Raymond P. Mariella

AMERICAN CHEMICAL SOCIETY

1981 Comprehensive Salary and Employment Status Survey

A. For EACH degree you have earned, please indicate the FIELD and LEVEL of the degree by writing the YEAR you received it in the appropriate row and column below.

FIELD	LEVEL		
	Bachelors	Masters	Doctorate
Chemistry	19 __	19 __	19 __
Biochemistry	19 __	19 __	19 __
Chemical Engineering	19 __	19 __	19 __
Business	19 __	19 __	19 __
Other	19 __	19 __	19 __

B. Employment status (Please check the one response that most aptly describes your status on March 1, 1981.):

Employment status:

- Postdoctoral or other fellowship . . . . 1[]
- Employed full-time . . . . . 2[]

→ Principal ANNUAL SALARY on March 1, 1981. (Do not include payments for second job, overtime work, summer teaching, or other supplemental employment.)

$_____ per year

- Not employed
  - and seeking employment . . . . . 3[]
  - and not seeking employment . . . . . 4[]
- Employed part-time . . . . . 5[]

C. If you were unemployed on March 1, how long had you been unemployed? _____ months

D. Check the one specialty most closely related to your present (or most recent) principal employment:

- Chemical engineering . . . . . 1[]
- Biochemistry . . . . . 2[]
- Agricultural/food chemistry . . . 3[]
- Analytical chemistry . . . . . 4[]
- Environmental chemistry . . . . . 5[]
- Organic chemistry . . . . . 6[]
- Pharmaceutial/medicinal/ clinical chemistry . . . . . 7[]
- Physical chemistry . . . . . 8[]
- Theoretical chemistry . . . . . 9[]
- Polymer/macromolecular chemistry . . 10[]
- Other chemical specialty . . . . . 11[]
- Non-chemical specialty . . . . . 12[]

E. Citizenship or visa status:

- U. S. citizen . . . . . 1[]
- U. S. permanent resident visa . . 2[]
- Other . . . . . 3[]

F. Racial or ethnic group:

- White . . . . . 1[]
- Black (not of Hispanic origin) . . . . . 2[]
- American Indian or Alaskan Native . . . . . 3[]
- Asian or Pacific Islander (Chinese, Japanese, Korean, Filipino, Subcontinental Indian) . . . . . 4[]
- Hispanic (Mexican, Puerto Rican, Cuban, Spanish) . . . . . 5[]
- None of the above . . . . . 6[]

G. Sex: Male 1[] Female 2[]

H. Age at last birthday before March 1, 1981: _____

I. State of residence: _____

J. Please indicate your ACS local section:

- Southern California . 1[]
- California . . . . . 2[]
- Chicago . . . . . 3[]
- Delaware . . . . . 4[]
- New York . . . . . 5[]
- North Jersey . . . . 6[]
- Northeastern . . . . 7[]
- Philadelphia . . . . 8[]
- Pittsburgh . . . . . 9[]
- Southeastern Texas . 10[]
- Washington (DC) . . 11[]
- None of the above . 12[]

If your current (or most recent) principal employment in for an academic institution, please skip to Question N.

K. Current (or most recent) principal employer:

Private industry
- Manufacturing
  - Chemicals . . . . . 1[]
  - Coatings . . . . . 2[]
  - Food . . . . . 3[]
  - Metals, minerals . . . . . 4[]
  - Paper . . . . . 5[]
  - Petroleum . . . . . 6[]
  - Pharmaceuticals, personal care . . . . 7[]
  - Rubber . . . . . 8[]
  - Other manufactures . . . . . 9[]
- Non-manufacturing . . . . . 10[]

Government
- Federal (including military) . . . . . 11[]
- State or local . . . . . 12[]

Hospital, independent laboratory . . . . . 13[]

Other non-profit organization
- Other research institution . . . . . 14[]

Self-employed . . . . . 15[]

Other employment . . . . . 16[]

L. Work function (Please check only one.):

Research and Development
- Management or administration of R&D . . . 1[]
- Basic research . . . . . 2[]
- Applied research, Development, Design . . 3[]

General management, administration (other than research and development) . . 4[]

Marketing, Sales, Purchasing, Technical Service, Economic evaluation . . . . . 5[]

Production, Quality control . . . . . 6[]

Forensic analysis, Other laboratory analysis . . . . . 7[]

Writing, Editing, Abstracting, Library services . . . . . 8[]

Data processing . . . . . 9[]

Consulting . . . . . 10[]

Other . . . . . 11[]

M. Number of subordinates reporting to you directly or through others (If none, please write "0".):

Professionals _____ Technicians _____ Other _____

STOP. Please return this form in the envelope provided.

N. Current or most recent principal employer:

Private college or university where the highest degree offered in chemical science is:
- Doctorate . . . . . 1[]
- Masters . . . . . 2[]
- Bachelors . . . . . 3[]
- Associate . . . . . 4[]

Public college or university where the highest degree offered in chemical science is:
- Doctorate . . . . . 5[]
- Masters . . . . . 6[]
- Bachelors . . . . . 7[]
- Associate . . . . . 8[]

High school or other school . . . . . 9[]

O. Rank:
- Professor . . . . . 1[]
- Associate professor . . . . . 2[]
- Assistant professor . . . . . 3[]
- Instructor or lecturer . . . . . 4[]
- Non-faculty research associate . . . 5[]
- Unranked faculty member . . . . . 6[]

P. Have you been granted tenure?
- Yes 1[]
- No 2[] → Do you hold a tenure-track position?
  - Yes 1[]
  - No 2[]

Q. My basic annual salary covers service for:
- 9-10 months . . . 1[]
- 11-12 months . . . 2[]

R. What percent of this basic annual salary comes from
- Institutional funds . . . . . _____ %
- Individual grants and contracts . _____ %

Total = 100 %

S. What percent of the work you perform for your principal employer is devoted to:
- Teaching . . . . . _____ %
- Research . . . . . _____ %
- Service . . . . . _____ %

Total = 100 %

Please return within 10 days to the American Chemical Society
Room 202, 1155 Sixteenth Street, N.W., Washington, D.C. 20036
Thank you.